

LGE PDP Repair Manual PDP42V7****

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Published by MW 0567 TV Service

11. Revision List

Subject to modification

EV 3122 785 15590





EN 2

1.

LGE PDP

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

1.1 Technical Specifications PDP42V7*

1.1 Technical Specifications PDP42V7*

The PDP Module is divided into a Panel part and a Drive part. The Panel part consists of Electrodes, Phosphor, various dielectrics, and gas, while the Drive part includes electronic circuitry and PWBs.

1.1.1 General Specification

Model Name Number Of Pixels (HxV) Pixel Pitch (HxV μm) Cell Pitch (HxV μm)

Display Area (HxV)
Outline Dimension (HxVxD)
Colour Arrangement
Number Of Colours (RxGxB)

Weight
Aspect Ratio

Peak Brightness

Contrast Ratio

Power Consumption

Lifetime

PDP42V7*

: 852 (*3) x 480 : 1080 x 1080 : 320 x 1080

: (Base: Green Cell) : 920.1x518.4 ± 0.5 mm : 1005x597x60.6±1mm : RGB closed type : 1024 x 1024 x 1024 : 14.7 ± 0.5 kg

Typical 1500 cd/m² (1/10 white window) Average 100:1

(Light room 100 Lx at

: Typical 10000:1

16:9

(Dark room 1/10 white window, white window pattern at centre)

Typical 200 W (Full White) ¹⁾

Over 60,000 Hrs. (Initial brightness 1/2)

Note 1) It can increase to 300 W depending on input image.

1.1.2 Definitions

* Back side of module

Exhaust hole

short side 1

TCP long2-1

TCP long 2-14

Figure 1-1 Definition of module position



Figure 1-2 Identification label

- 1. Model name.
- 2. Bar code (Code 128, contains the manufacture no.).
- 3. Manufacture no. (Module serial no.).
- 4. The trade name of LG Electronics.
- 5. Manufacture date (Year & Month).
- 6. The place of origin.
- 7. Model suffix.

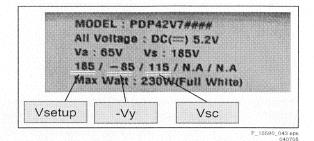
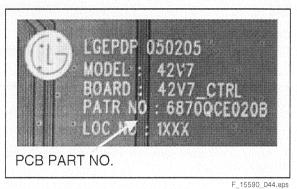


Figure 1-3 Voltage label (on backside of module)



.__15590__044.ep: 04070:

Figure 1-4 Part number printing (on board)

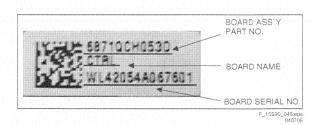
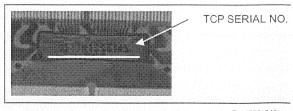


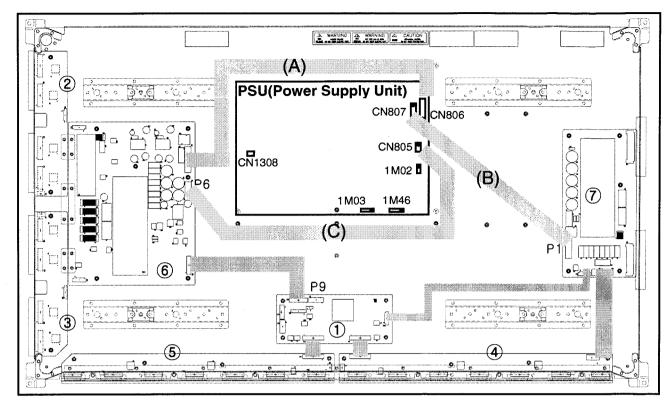
Figure 1-5 Part number label (on board)



F_15590_046.eps

Figure 1-6 TCP serial no. (on TCP)

1.1.3 Connection Overview



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Figure 1-7

Table 1-1 Connector signals

| No | Connector | Input voltage & signal |
|----|-------------|------------------------|
| P1 | Z SUS board | 5V, Va, Vs |
| P5 | Y SUS board | Vs |
| P6 | Y SUS board | 5V |
| P9 | CTRL board | Control signal |

Table 1-2 PSU Cable Assies

| No | LGE Part No. | Description |
|----|--------------|---------------------------|
| Α | 6631Q39032A | Cable assy 10p PSU->Y-SUS |
| В | 6631Q39033A | Cable assy 8p PSU->Z-SUS |
| С | 6631Q39034A | Cable assy 4p PSU->Y-SUS |

Table 1-3 PSU Connectors

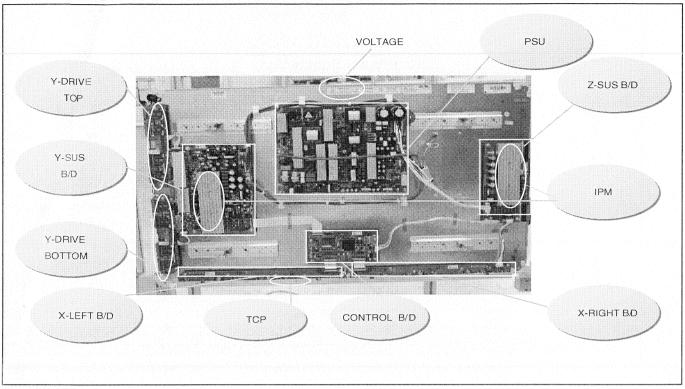
| No | Input voltage & signal |
|--------|---|
| CN806 | Vs: 187 V |
| CN807 | Vs: 187 V, Va: 65 V, 5 V |
| CN805 | 5V |
| CN1308 | AC 220 V |
| 1M02 | +Vsnd: +18 V, -Vsnd: -18 V |
| 1M46 | 8V6: 8.6 V, +12V: 12 V, +5V2: 5.2 V, Vtun: 50 V |
| 1M03 | 5V_sw: 5.2 V |

Table 1-4 Board overview

| No | LGE Part No. | Description of board assy | | | | |
|-----|---|---------------------------|--|--|--|--|
| 1 | 6871QCH053D | LVDS CTRL | | | | |
| 2 | 6871QDH084A | Y-DRV TOP | | | | |
| 3 | 6871QDH085A | Y-DRV BTM | | | | |
| 4 | 6871QRH055D | X-R | | | | |
| 5 | 6871QLH047D | X-L | | | | |
| 6 | 6871QYH036C | Y-SUS | | | | |
| 7 | 6871QZH041A | Z-SUS | | | | |
| For | For Philips order codes, refer to "Ch. 10 Spare Parts". | | | | | |

LGE PDP

1.1.4 Chassis Overview



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Figure 1-8 PWB location

2. Safety Instructions, Warnings, and Notes

Notes:

- Only authorised persons should perform servicing of this module
- When using/handling this unit, pay special attention to the PDP Module: it should not be enforced into any other way then next rules, warnings, and/or cautions.
- "Warning" indicates a hazard that may lead to death or injury if the warning is ignored and the product is handled incorrectly.
- "Caution" indicates a hazard that can lead to injury or damage to property if the caution is ignored and the product is handled incorrectly.

2.1 Warnings

- Do not touch the Signal and Power Connectors while this product operates. Do not touch EMI ground part and Heat Sink of Film Filter.
- Do not supply a voltage higher than specified to this product. This may damage the product or can create hazardous situations.
- Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it. Do not install or use the product in a location that does no satisfy specified environmental conditions. This may damage the product or can create hazardous situations.
- If a foreign substance (such as water, metal, or liquid) gets inside the product, immediately turn "off" the power.
 Continuing to use the product may cause electric shock or can create hazardous situations.
- If the product emits smoke and abnormal smell, or makes an abnormal sound, immediately turn "off" the power.
 Continuing to use the product may cause electric shock or can create hazardous situations.
- 6. Do not (dis)connect the connector while power to the product is "on". It takes some time for the voltage to drop to a sufficiently low level after the power has been turned "off". Confirm that the voltage has dropped to a safe level before (dis)connecting the connector.
- Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- Do not damage or modify the power cable. It may cause electric shock or can create hazardous situations.
- If the power cable is damaged, or if the connector is loose, do not use the product, otherwise, this can lead to hazardous situations or may cause electric shock.
- 10. If the power connector, or the connector of the power cable, is dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to hazardous situations.
- 11. The PDP module uses a high voltage (max. 450 V_{DC}). Keep the cautions concerning electric shock and do not touch the device circuitry handling the PDP unit. And because the capacitors of the device circuitry may remain charged at the moment of Power "off", standing for 1 minute is required in order to touch the device circuitry.
- 12. Because the PDP module emits heat from the glass panel part and the drive circuitry, the environmental temperature must not be over 40 deg. C. The temperature of the glass panel part is especially high owing to heat from internal drive circuitry. And because the PDP module is driven by high voltage, it must avoid conductive materials.

- 13. If inserting components or circuit boards in order to repair, be sure to fix a lead line to the connector before soldering.
- 14. If inserting high-power resistors (metal-oxide film resistor or metal film resistor) in order to repair, insert it 10 mm away from a board.
- During repairs, high voltage or high temperature components must be put away from a lead line.
- 16. This is a cold chassis but you better use an isolation transformer for safety during repairs. If repairing the electricity source part, you MUST use the isolation transformer.
- Do not place an object on the glass surface of the display.
 The glass may break or be scratched.
- 18. This product may be damaged if it is subjected to excessive stresses (such as excessive voltage, current, or temperature). The absolute maximum ratings specify the limits of these stresses.
- 19. The recommended operating conditions are conditions in which the normal operation of this product is guaranteed. All the rated values of the electrical specifications are guaranteed within these conditions. Always use the product within the range of the recommended operating conditions. Otherwise, the reliability of the product may be degraded.
- 20. This product has a glass display surface. Design your system so that excessive shock and load are not applied to the glass. Exercise care that the vent at the corner of the glass panel is not damaged. If the glass panel or vent is damaged, the product is inoperable.
- 21. Do not cover or wrap the product with a doth or other covering while power is supplied to the product.
- 22. Before turning on power to the product, check the wiring of the product and confirm that the supply votage is within the rated voltage range. If the wiring is wrong or if a voltage outside the rated range is applied, the product may malfunction or be damaged.
- 23. Do not store this product in a location where temperature and humidity are high. This may cause the product to malfunction. Because this product uses ad ischarge phenomenon, it may take time to light (operation may be delayed) when the product is used after ithas been stored for a long time. In this case, it is recommended to light all cells for about 2 hours (aging).
- 24. This product is made from various materials such as glass, metal, and plastic. When discarding it, be sure to contact a professional waste disposal operator.
- 25. If faults occur due to arbitrary modification or disassembly, LG Electronics is not responsible for function, quality or other items.
- 26. Use of the product with a combination of parameters, conditions, or logic not specified in the specifications of this product is not guaranteed. If intending to use the product in such a way, be sure to consult LGE in advance.
- 27. Within the warranty period, general faults hat occur due to defects in components such as ICs will berectified by LGE without charge. However, IMAGE STICKNG due to misapplying the above provision (12), is not included in the warranty. Repairs due to the other faults has be charged for depending on responsibility for the fauts.
- 28. While assembling the PDP module into a ⊕t, use the EMI ground part of the Film Filter for groundini, BEFORE removing the protective film, to prevent tha static electricity can damage the TCPs or boards

3. Directions for Use

Not applicable.

4. Mechanical Instructions

4.1 Mechanical Overview PDP42V7*

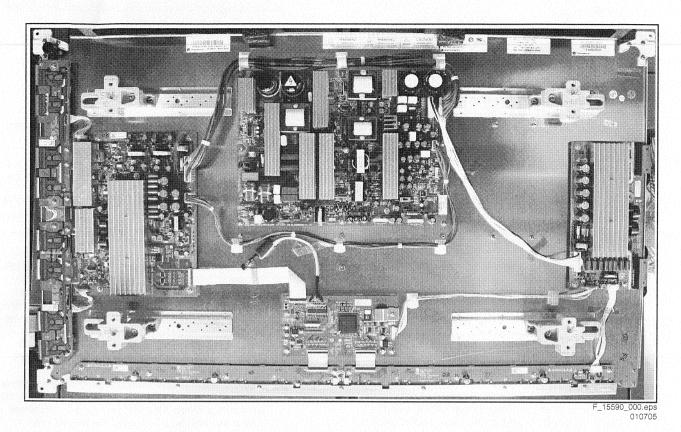
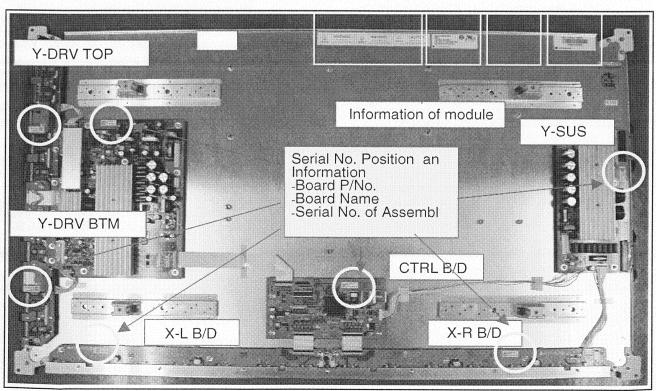
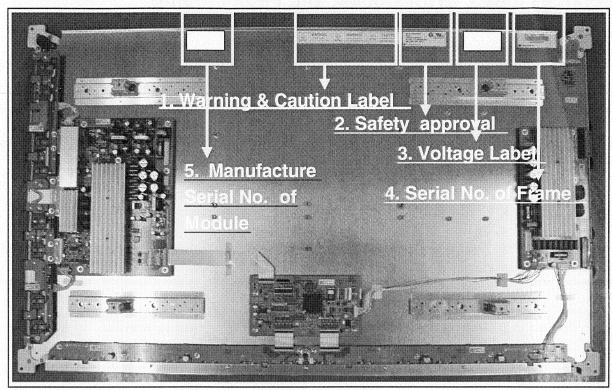


Figure 4-1 Cable dressing



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F_15590_111.eps 070705

Figure 4-3 Label indication

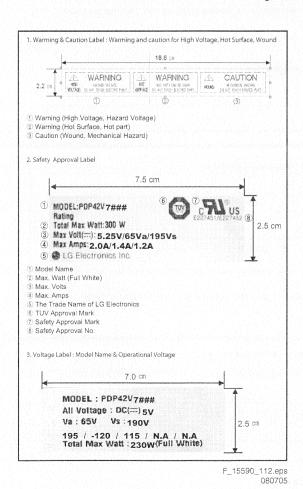
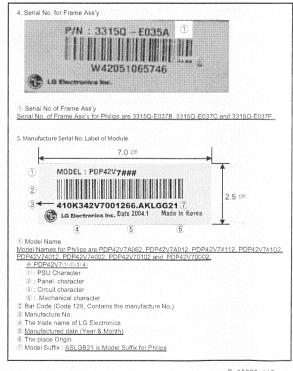


Figure 4-4 Label information (1)



F_15590_113.eps 080705

Figure 4-5 Label information (2)

Service Modes, Error Codes, and Fault Finding

Index of this chapter:

- 5.1 Quick Module Check PDP42V7*
- 5.2 Detailed Module Check PDP42V7*
- 5.3 Detailed PSU Check PDP42V7*

Quick Module Check PDP42V7* 5.1

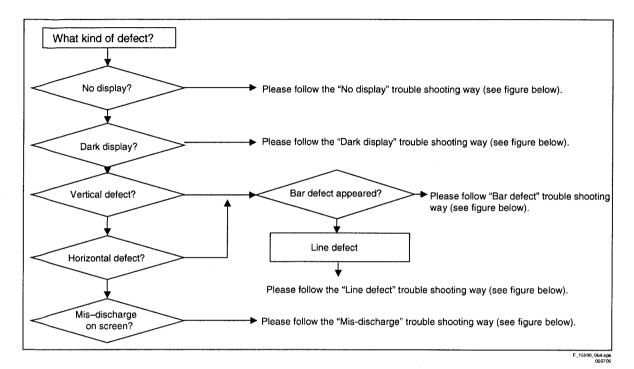


Figure 5-1 Logical judgement

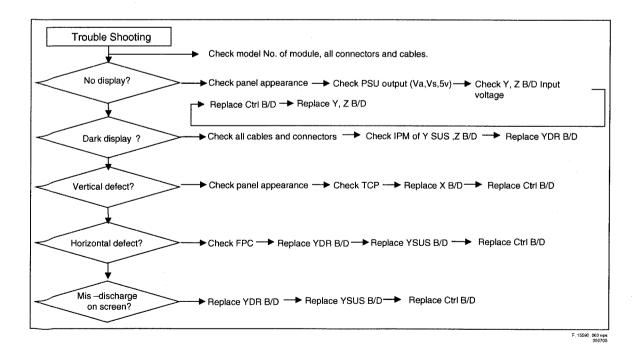


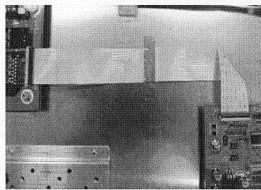
Figure 5-2 Quick check

5.1.1 No Display

Check each section with following method. If there is a problem, replace or repair that part. If it is not found, go to the next section.

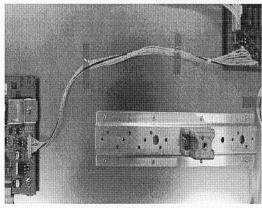
Connectors

Confirm all connectors (PSU, Y-SUS, CTRL, Z-SUS). The module may not function normally by misconnection (can not send signal and power). Also misconnection for a long time can have a specific board failed.



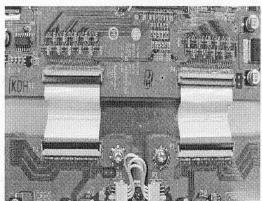
F_15590_065.eps 290605

Figure 5-3 Control + Y-SUS board



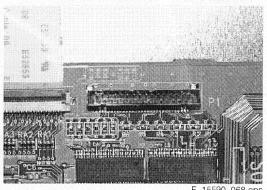
F_15590_066.eps 290605

Figure 5-4 Control + Z-SUS board



F_15590_067.eps 290605

Figure 5-5 Control + X board



F_15590_068.eps 290605

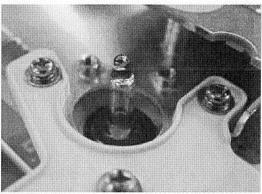
Figure 5-6 Signal input (LVDS)

Exhaust Tip

Check the Exhausting Tip for cracks with the naked eye to check the vacuum state.

If there is a problem, replace the PDP module by a new one. In case of vacuum breakdown, the module makes a shaking noise because of inside gas ventilation.

There may be a small crack, which cannot be seen with the naked eye. This noise is different from capacitor noise.



NORMAL

F_15590_069.eps 050705

Figure 5-7 Exhaust tip "normal"

EN 10 5.

LGE PDP

PSU (see figure "PSU trouble shooting")

- 1. Check each unit part of PSU inside with naked eye (capacitor, FET, IC, resistor).
- 2. Check fuse and switch position (on "Normal").
- 3. Check output voltage, which is converted from AC to DC.
- 4. Voltage Check (5V, Va, Vs).

When PSU protection occurred: check for short between Y-SUS and Z-SUS board.

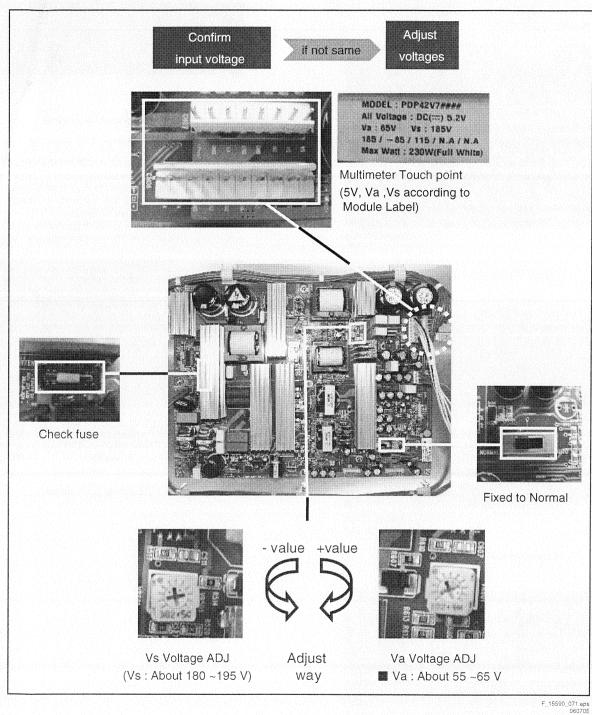


Figure 5-8 PSU trouble shooting

PSU Power Protection

There is a power protection when the power is switched "off" automatically within 2-3 min. from power "on".

The power protection function protects the boards when a short occurs on circuits of the PDP module, or when a power problem occurs. If there is no power, even after replacing the PSU, find out where the short occurred.

In case of a PSU protection, the red LED will be "on" and an error code will be displayed via the green blinking LED (see also paragraph "Detailed PSU Trouble Shooting" further on). In case of a PSU protection, switch the service switch to "auto", disconnect the power supply connectors to the boards, to find if the if the boards are defective or the PSU itself.

Control Board (see figure "Control b/d trouble shooting")

- 1. Check LED status (normal status lightening or not)
- 2. If not, check OSC X1 output.
- 3. Check CTRL input voltage (connector P10).
- 4. Check each FET (3.3V, 5V, and 1.8V).

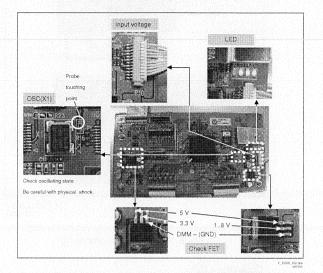
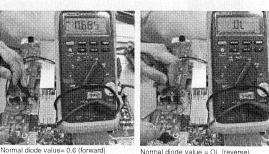


Figure 5-9 Control b/d trouble shooting

Y-SUS Board (see figure "Y-SUS b/d trouble shooting")

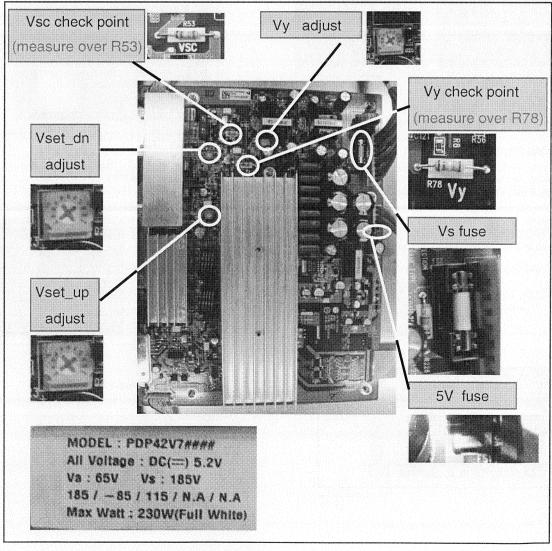
- 1. Check fuse: FS1 (5V), FS2 (Vs).
- 2. Check voltages (Vsetup, -Vy, and Vsc).
- 3. Check diode between GND and Y-SUS output.
- 4. Check whether output voltages agree with voltages on the label.



F 1559

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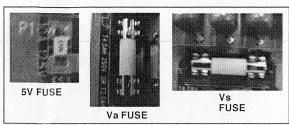
Figure 5-10 Y-SUS board output diode check



LGE PDP

Z-SUS Board

- 1. Check the fuses.
- 2. Check input voltages (Va, 5V, and 15V)
- 3. Check FPC output diode value.



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Figure 5-12 Z-SUS board fuse check





F_15590_077.eps

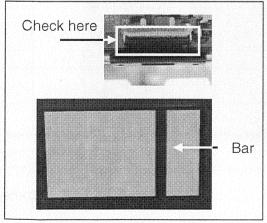
Figure 5-13 Z-SUS board FPC output diode check

Bar Defect (Vertical) 5.1.2

Check each section with following method. If there is a problem, replace or repair that part. If not go to the next section.

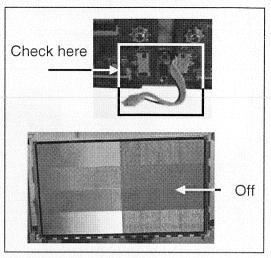
Connector

Check the TCP connector and cables. If not connected well, it will result in a bar defect and abnormal display behaviour.



F_15590_078.eps 060705

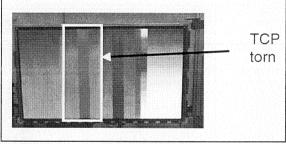
Figure 5-14 Connector check (1)



F_15590_079.eps 060705

Figure 5-15 Connector check (2)

Checking TCP Confirm whether the TCP was torn or chopping.



F_15590_080.eps 060705

Figure 5-16 TCP torn

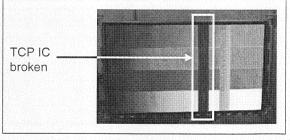


Figure 5-17 TCP IC broken

Control Board

The Control board supplies the video signal to the TCP. So, if there is a bar defect on screen, it may be a Control board problem.

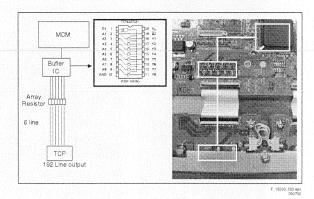


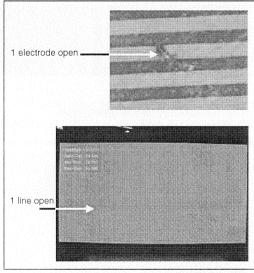
Figure 5-18 Control board address flow

5.1.3 Line Defect (Vertical)

In case of one line open or shorted, check dirt (foreign substances) in TCP connector. First, try to remove the dirt with compressed air. If, after this, the same line appears again, replace the panel.

Line Open or Short

This phenomenon is due to TCP IC inside short or electrode problem. In this case, replace the panel.



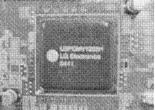
F_15590_083.ep

Figure 5-19 Single line defect

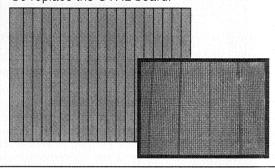
Line Open or Short with the Same Distance

This is MCM of Control board defect. The MCM cannot be replaced separately. So replace the Control board.

MCM (Multi Chip Module)



MCM of CTRL board defect.
MCM can not be replaced separately.
So replace the CTRL board.



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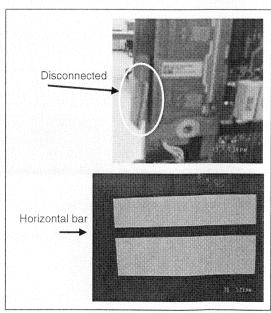
Figure 5-20 Evenly repeated lines

5.1.4 Bar Defect (Horizontal)

Most horizontal defects can be repaired. In case of adherence part of the film and rear panel electrode, or panel electrode open/short, replace the PDP panel.

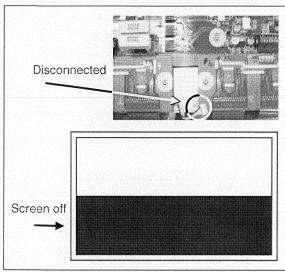
Connector

If the connector on Y board and Z board are not plugged in well, it can result in a horizontal bar, because the sustain voltage Cannot be supplied to panel. So check connectors FPC and Ydrv-Ydrv first.



F_15590_085.eps 060705

Figure 5-21 Check FPC connectors



LGE PDP

F_15590_086.eps

Figure 5-22 Check drive connectors

Scan IC Check

Check diode value of the right side part of the output pin.





Figure 5-23 Scan IC output diode check

5.1.5 Line Defect (Horizontal)

FPC Check

In case of one or more horizontal lines, this is probably due to FPC or panel inside the Control board. Y board is just normal.

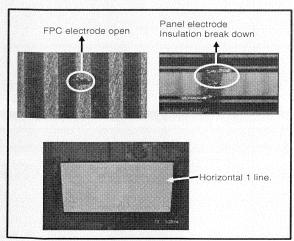
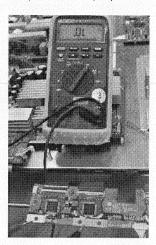


Figure 5-24 Open FPC electrode / Panel electrode breakdown

Scan IC Check

Check diode value of the right side part of the output pin.





F_15590_091.eps 290605

Figure 5-25 Scan IC output diode check

5.1.6 Mis-discharge Defect

Most of mis-discharge appearance is a problem of Y-DR, Y-SUS, or Z board.

Check these boards when mis-discharge occurs.

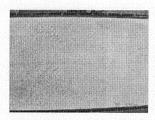




Figure 5-26 Mis-discharge

Checking Order

- 1. Check Y- and Z-SUS signal cable.
- 2. Check if Y-DRV IC is defective.
- Check Y-SUS board voltages (-Vy, Vscw)
- 4. Check if Y- and/or Z-SUS IPM are defective (see paragraph "How to Check IPM" below).
- 5. Replace Control board

How to Check IPM

Forward direction

Measure between:

- GND (+) and Sus-out (-).
- Sus-out (+) and Vs (-).

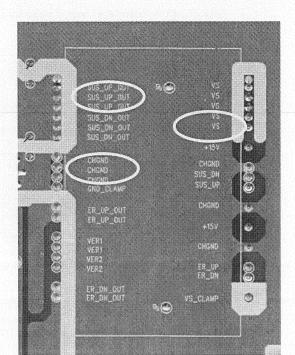
When each two test diode values is over 0.4V => OK.

Reverse direction

Measure between:

- GND (-) and Sus-out (+).
- Sus-out (-) and Vs (+).

When each 4 nodes test diode values is infinite => OK



F_15590_095.eps

Figure 5-27 IPM check

5.2 Detailed Module Check PDP42V7*

5.2.1 No Display

The Screen Does Not Display a Picture

- 1. Check whether on the CTRL board LED (D1, D2, D3, D4, and D5) is turned "on" or not.
- 2. Check the power and signal cable of the CTRL board.
- 3. Check if the X, Y, and Z boards are plugged in correctly.
- Check the connection of the X, Y, and Z boards to the CTRL board.
- Measure the output wave of X, Y, and Z boards with an oscilloscope (> 200 MHz) and find the trouble board by comparing the output wave with below figure.
 - Measure point for Y board: Bead B39.
 - Measure point for Z board: Bead B28.
 - Measure point for X board: P3.
- 6. Check the SCAN (Y side) IC.
- 7. Check the DATA (X side) TCP IC.
- 8. Replace the CTRL board.
- 9. Check if the fuse of Y and/or Z board is open and replace when open.
- 10. Check the input voltage (Vcc= 5 V, Va= 65 V, Vs= 187 V).

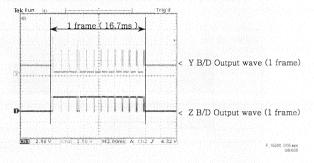


Figure 5-28 Y and Z board output waveform (1 Frame)

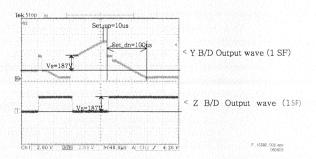


Figure 5-29 Y and Z board output waveform (1 Sub Frame)

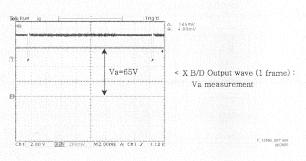


Figure 5-30 X board output waveform (1 Frame)

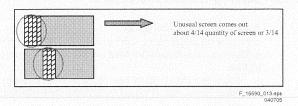


Figure 5-36 Case 3

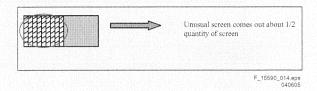


Figure 5-37 Case 4

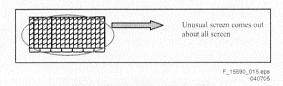


Figure 5-38 Case 5

Regular Stripe on Display

- In case of the generation of regular vertical stripes around the location of one Data TCP IC (or more), check the connections.
- Confirm if the connection of X board or CTRL board to X board correspond to unusual screen.
- 3. Replace the relevant X board or CTRL board.

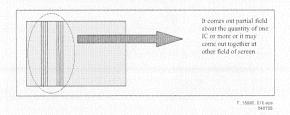


Figure 5-39 Screen display "Regular stripes"

Scan FPC Problem

- Check the connection between Y DRV board and Scan FPC.
- 2. If the Scan IC is defective, replace the Y DRV board.

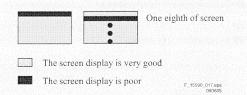


Figure 5-40 Screen display "Scan FPC problem"

- Check method of the SCAN IC
 - Change the Vpp pin into ANODE and GND pin into CATHOD, and then test the diode in forward or reverse direction.

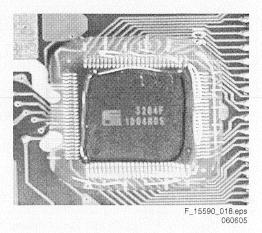
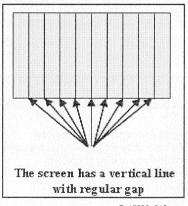


Figure 5-41 Scan IC

Vertical Line with Regular Gap (Vertical Stripe Flash at Special Colour)

Replace the CTRL board.

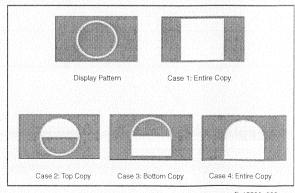


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Figure 5-42 Screen display "Vertical lines with regular gap"

Data Copy into Vertical Direction

Replace the Y-DRV board or Y board.

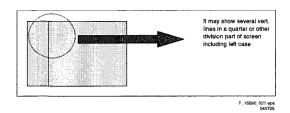


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Figure 5-43 Screen display "Data copy in vertical direction"

One or Several Vertical Line(s) on the Screen

- 1. It may be caused by:
 - Open or short on DATA TCP FPC attached panel.
 - Defect on DATA TCP attached panel.
- 2. Replace Module.



LGE PDP

Figure 5-44 Screen display "Vertical lines"

One or Several Horizontal Lines on the Screen

- 1. It may be caused by:
 - Open or short on SCAN FPC attached panel.
 - Defect on SCAN IC attached panel.
- 2. Replace Y DRV board.

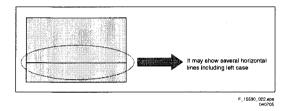


Figure 5-45 Screen display "Horizontal lines"

Low Brightness of Displayed Picture

- 1. In this case, Z board operation is not correct.
- 2. Check the power cord of Z board.
- 3. Check the connector of Z board and CTRL board.
- 4. Replace the CTRL board or Z board.

Partially Other Colour on Full White Screen or Partially Discharge on Full Black Screen.

- 1. Check the declination of Y board set-up and set-down wave
- 2. Measure each output wave with oscilloscope (> 200 MHz) and compare the data with below figure data. Adjust the Y board Set_up (A) and Set_down (B) declination by changing VR1 and VR2 as written on the adjustment label.
 - Measuring Point of Y board: B39

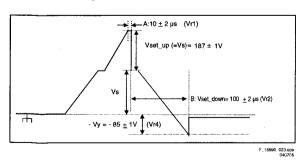


Figure 5-46 Y output voltage waveform

No Specified Brightness at Specified Colour

- 1. Check the connector of CTRL board input signal.
- 2. Replace the CTRL board.

5.2.3 Checking for Component Damage

Y IPM (IC 15) or Z IPM (IC 2)

When the internal Sustain_IGBT or ER_FET of Y IPM (IC15) or Z IPM (IC2) is damaged, VS fuse is open and there will be no picture.

- Test Point: B32-GND (Y board), B28-GND (Z board).
- Wave format: B32 (Y board) or B28 (Z board) has no output
- Measure position: Sustain section, B32 wave of Y board and B28 wave of Z board (full white pattern).

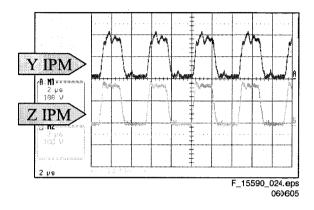


Figure 5-47 IPM normal output

Pass_Top FET (Y board: HS2)

When the Pass_Top FET is damaged, electric discharge of the entire screen is generated.

- Test Point: GND-B32 (Y board)
- Wave format: When the Set_dn does not descend until-Vy.

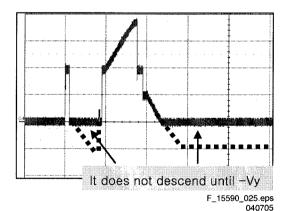


Figure 5-48 Pass-Top FET defective

FET Assy (Y board: HS1)

When Set_Up FET is damaged, there will be no picture.

- 1. Test Point: GND-B32 (Y board)
 - Wave format: Set_up waveform is not generated.
- 2. When Set_Down FET is damaged, electric discharge of entire screen is generated.
 - Test Point: GND-B32 (Y board)
 - Wave format: Set_down waveform is not generated.
 - Measure position: Reset wave of B32 (Y board) (full white pattern)

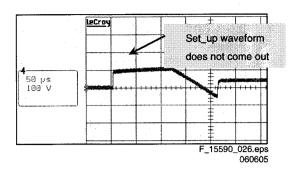
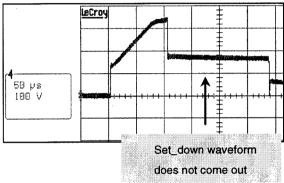


Figure 5-49 Set_Up FET defective



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Figure 5-50 Set_Down FET defective



Figure 5-51 Reset section normal output

SCAN IC (Y-DRV board: IC1-8)

- In case of the SCAN IC is damaged, one horizontal line may be open on the screen.
 - Test Point: ICT measurement of GND-Y DRV board output.
 - Wave format: As shown below figure.
- When the SCAN IC is damaged (poor, external electricity, or spark), there might be no picture.
 - Test Point: ICT measurement of GND-Y DRV board output
 - Wave format: Output wave format is not generated (you can see if Y DRV board Top or Bottom's SCAN IC is damaged).
- Screen shaked horizontally when Y DRV board Top and Bottom cable is damaged.
 - Test Point: ICT measurement of GND-Y DRV board output.

- Wave format: As shown in figure "Y DRV board Top and Bottom cable damaged".
- 4. Overlap of two horizontal lines on the screen in case of shorted SCAN IC output.
 - Test Point: ICT measurement of GND-Y DRV board output.
 - Wave format: As shown in figures "SCAN IC shorted output" and "SCAN IC normal output".
 - Measurement point: SCAN section, output ICT of Y DRV board (full white pattern).

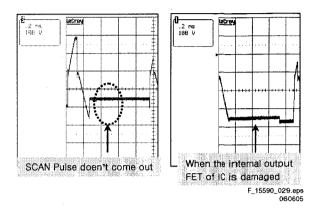


Figure 5-52 SCAN IC defective

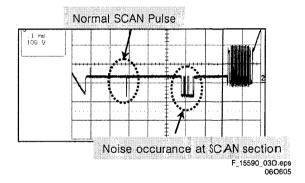


Figure 5-53 Y DRV board Top and Bottom cable damaged

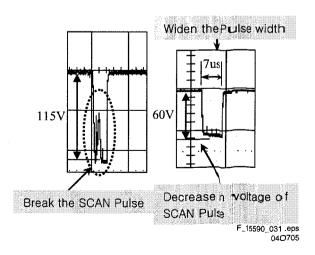


Figure 5-54 SCAN IC shorted output

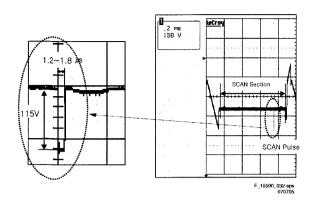


Figure 5-55 SCAN IC normal output

TCPs

- In case of shorting or opening of TCP IC output, it may show one or several vertical lines.
 - Test Point: Output TP of GND-TCP
 - Wave format: As shown in figure below. In case of normal wave output, when STB signal is generated, the output must maintain "high". When STB signal is generated again, the output must fall to "low". But when the TCP IC is damaged, the STB signal is not generated, and the output falls to "low".
- In case of a damaged TCP IC or power resistance, the screen is not shown or discharges partially.
 - Test Point: Output TP of GND-TCP
 - Wave format: Output wave is not generated.

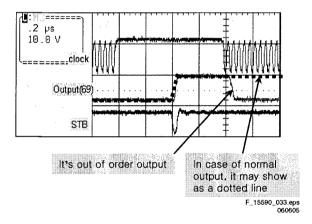


Figure 5-56 COF IC output defective

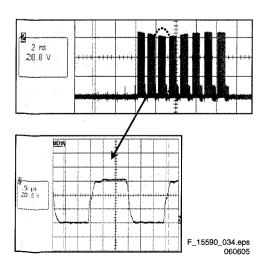


Figure 5-57 TCP normal output

Crystal (CTRL board: X1)

- 1. When a crystal is damaged, the screen is not shown.
 - Test Point: Measuring 3-pin of GND-Crystal (CTRL board: X1).
 - Wave format: Output wave is not generated.
- In case of unusual start-up of the crystal, the screen may blink.
 - Wave format: As shown in figure below.
 - Measurement position: Measuring output 3-pin of crystal (X1: 100 MHz) on CTRL board (full white pattern).

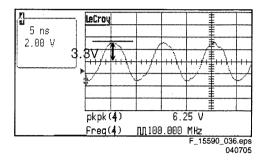


Figure 5-58 Crystal normal output

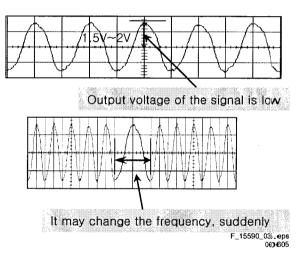


Figure 5-59 Crystal defective output

5.3 Detailed PSU Check PDP42V7*

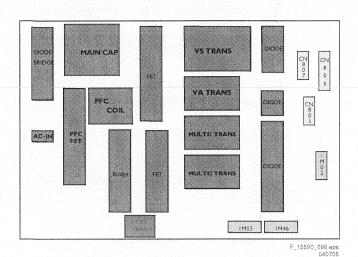


Figure 5-60 PSU top view

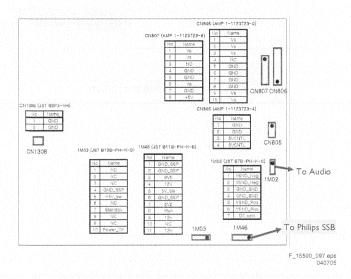


Figure 5-61 PSU Connector I/O pin assignment

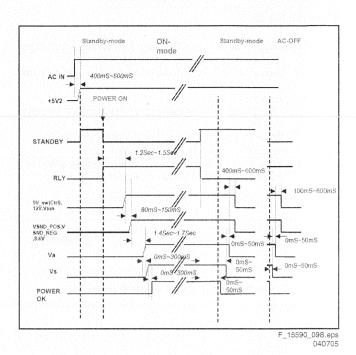


Figure 5-62 PSU "on/off" sequence in "Normal" mode

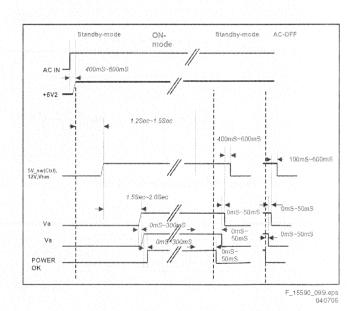


Figure 5-63 PSU "on/off" sequence in "Auto" mode

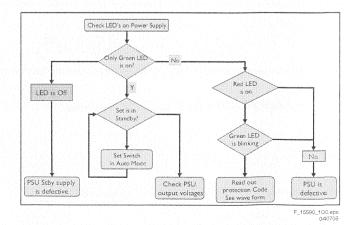


Figure 5-64 PSU Fault finding tree

EN 22

- 5.
- LGE PDP

5.3.1 No Display

- 1. Check whether the LED1 of the PSU is turned "on" or not.
- 2. Check the power and signal cables of the PSU.
- Check the connection of the X board, Y board, and Z board to the Control board.
- 4. Replace the PSU
- Check the output voltages of the PSU (Vcc= 5V, Va= 65V, Vs= 187V).
- 6. When 5V2 is not present, check whether the fuse is shorted or opened in AUTO/NORMAL mode.
- When the PSU is in protection mode, check waveform and count of LED1 as shown in the figures below.

| LED Count | OCP [Over Current Protection] | OVP [Over Voltage Protection] |
|-----------------------|-------------------------------|-------------------------------|
| Continuous flicker | LED OFF | LED OFF |

*Time period : LED ON/OFF repeat an interval 200ms

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Figure 5-65 DC-port signal (1M02) protection

| D OFF 480m D ON Repeat 1.4Sec | LED OFF 1.4Sec LED ON Repeat 80ms |
|----------------------------------|-----------------------------------|
| | OFF 1.4Sec |

Figure 5-66 Vs output protection

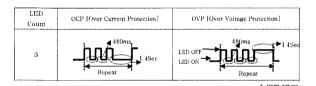


Figure 5-67 Va output protection

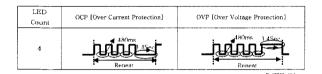


Figure 5-68 5V output circuit protection

| LED Count | OCP [Over Current Protection] | OVP [Over Voltage Protection] |
|--------------|-------------------------------|-------------------------------|
| 5 | 480ms Reneat | A80ms Repeat |

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Figure 5-69 12V and V_tun circuit protection

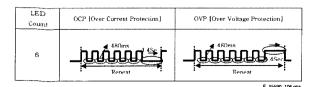


Figure 5-70 +18V circuit protection

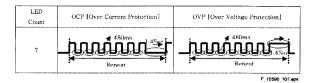


Figure 5-71 +8V6 circuit protection

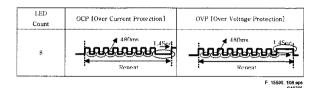


Figure 5-72 -18V circuit protection

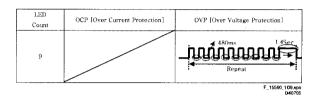


Figure 5-73 PFC circuit protection

5.4 Defect Description Form

This form must be used by the workshops for warranty claims:

| 0 | be filled in by <u>WORKSHO</u> | P / WORK C | ENTER | · | | | <u> </u> | | er our examination | PARTY NAME OF THE PARTY NAME O |
|-----------------------|--------------------------------|------------|--|-----------------------------|-----------|----------------------|--|--------------------------------|--------------------|--|
| Со | untry: | | P | Philips | | | Туре | nr./Mode | | |
| | | | • | | | Serial nr. set | | | | |
| Customer Account nr.: | | | LCD | LCD & Plasma | | | Type nr. display | | | |
| | | | <u>DEFECT D</u> | DEFECT DESCRIPTION FORM | | | Serial nr. display Part nr display (12nc) Return number 0170 | | | |
| Jol | b sheet nr.: | | | | | | | | | |
| | | | | | | | | | number | 0170 |
| I | | 0 | Constantly | | . , | | In a h | ot environ | ment | |
| | Condition | | Intermittently | | | | In a c | old enviror | nment | |
| | | ٥ | After a while | - | | | Other | : | | |
| | | | No backlight | | | 0 | | ring / flash | | |
| | | | No picture | | | | | across/do | wn image | € |
| | | | Picture too brigh | nt | | _ | | ve row(s) | | |
| 1 | Symptom(s) | | picture | | | ☐ Inactive column(s) | | | | |
| | | | | | | П | Missing colour(s) Other: | | | |
| 7 | | | | | Other | | | | | |
| | Defect(s): | | Dark dots Bright dots | | | Iviark | | nsert picture or mark defect ! | | |
| | Symptoms | Followi | ng defect symptor | ns are ou | ut of war | ranty: | | | | These |
| | Out of | • Broke | en glass | | • Num | ber of d | r of dark/bright pixels within spec. | | | |
| | warranty | Scrat | ch(es) on display | | • Burn | 1 in (only for | Piasma T\ | /) | | claimatik |
| | | Sp | are Part Nr. New | e Part Nr. New Board Barcod | | de Nr. Defect Board | | oard | Barcoo | de Nr. Replaced Board |
| | Tou Dingona | 1. | | | | | | | | |
| C II F I VIII | For Plasma TV repair | 2. | | | | | | | | |
| | <u>only</u> | 3. | | | | | | | ļ | |
| 3 | | | | | | | | | | |
| | | 4. | alla directivativa de la co | | | ·/· | | | | |
| Го | be filled in by EUROSERV | ICE | RMA number: | | | | Date of receipt: | | | |
| | Note 1: The defe | ective LC | CD-panel / PDP n | eeds to | be retur | ned in th | ne sam | e packagir | ng as the | new part was send.lf |

LGE PDP

Block Diagrams, Test Point Overviews, and Waveforms

Not applicable

7. Circuit Diagrams and PWB Layouts

Not applicable

8. Alignments

Index of this chapter:

8.1 General

8.2 Alignment PDP42V7*

8.1 General

Notes:

- Allow the set to warm up according conditions below for at least 10 minutes before adjusting.
 - Service signal: 100% Full White.
 - Service DC voltage: Vcc= 5 V, Va= 65 V, Vs= 187 V.
 - DC/DC Pack voltage: Vsc= 115 V, -Vy= -85V
 - Preliminaries environment: Temp (25 \pm 5 deg. C), Relative Humidity (65 \pm 10%).
- 2. Module adjustment should follow below sequence.
 - First, set up the Vsc / -Vy voltage (Vsc= 115 V, -Vy= -85 V).
 - Then, adjust the voltage waveform (refer to adjustment).

Caution: Do not leave a still image for more than 10 minutes (especially The Digital pattern or Cross Hatch Pattern which has clear gradation) on the display, because this will cause burn-in effects.

8.2 Alignment PDP42V7*

8.2.1 Connection Diagram and Set-Up

- For the connection diagram of the measuring instrument, refer to Fig. "Measuring equipment connection diagram".
- Set-up the initial voltage (voltage label) Vcc= 5 V, Va= 65 V, Vs= 187 V. Note that the initial set-up voltage can be changed according to the module's characteristic.

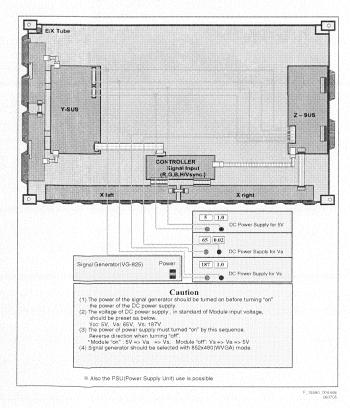


Figure 8-1 Measuring equipment connection diagram

8.2.2 Tools

- 1. Digital oscilloscope: > 200 MHz.
- 2. DVM (Digital Multimeter): Fluke 87 or similar.
- 3. Signal generator: VG-825 or similar.
- 4. DC power supply or PSU:
 - DC power supply for Vs (1): 0 200 V, > 10 A.
 - DC power supply for Va (1): 0 100 V, > 5 A.
 - DC power supply for 5V (1): 0 10 V, > 10 A.
 - DC/DC converter jig (1): The jig with an equivalent voltage output of PDP42V7#### module after taking the Vs, Va, and 5V voltage.
 - Voltage stability of power supply: Within ± 1% for Vs and Va, within ± 3% for 5V.

8.2.3 Alignments

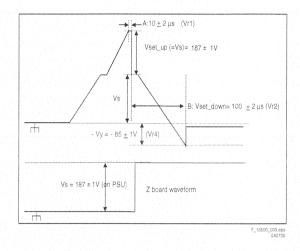


Figure 8-2 Y, Z set-up waveform

Vset-up Alignment

Adjusting **Vset-up** voltage wave form:

- Connect the measuring instruments according to Fig. "Measuring equipment connection diagram".
- Turn on the measuring instruments with "Caution" of Fig. "Measuring equipment connection diagram".
- 3. Connect the oscilloscope probe to B39 (Bead) of Y board bottom and GND.
- Turn the VR1 on the Y board, and make the "A" waveform according to Fig. " Y, Z set-up waveform " to be 10 ± 2 μs.

Vset-down Alignment

Adjusting Vset-down voltage wave form:

1. Turn the VR2 on the YSUS board and make the "B" waveform according to Fig. " Y, Z set-up waveform " to be $100\pm2~\mu s.$

DC/DC Pack Voltage Alignment

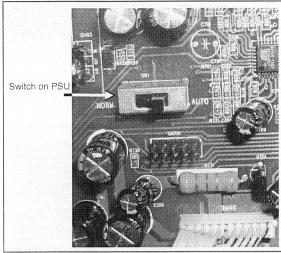
Checking the DC/DC Pack voltage:

- Convert the signal of the signal generator to a 100% Full White signal.
- Connect the GND terminal of the DVM to the right leg of R53 on the Y board, and set the Plus terminal to the left leg of R53 to check the Vsc voltage (115±1 V) and when there is abnormality in the voltage, turn the variable resistor (VR3) of DC/DC Pack (Vsc) PS1 on the Y board to adjust.
- 3. Connect the GND terminal of the DVM to the right leg of R78 on the Y board and set the Plus terminal to the left leg of R78 to check the -Vy voltage (-85 ± 1 V) and when there is abnormality in voltage turn the variable resistor (VR4) of the DC/DC Pack (-Vy) PS1 on the Y board to adjust.

Vs Alignment on PSU

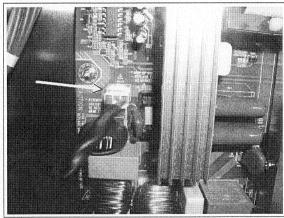
This describes the Vs alignment on the PSU:

- 1. Set the switch on the PSU to "AUTO".
- Connect Mains/AC Power (from Mains Filter) to the PSU board (CN1308).
- Connect a multimeter between CN06-Vs and ground (e.g. frame).
- 4. Align Vs with the upper potmeter (VR501) to:
 - 184 V for the PDP42V7A062 and PDP42V7K062 models (different from label!).
 - 187 V for the other V7 models (as printed on label).
- 5. Set the switch on the PSU back to "NORMAL".



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Figure 8-3 Switch setting (Vs alignment step 1)



F_15590_117.eps 120705

Figure 8-4 Connect Mains (Vs alignment step 2)

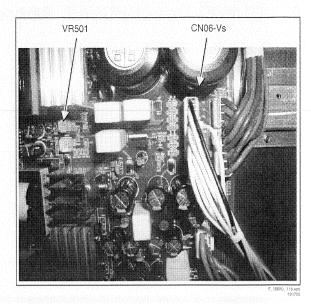


Figure 8-5 Vs measure and alignment point (step 3 &4)

8.2.4 Internal Test Patterns

The CTRL board is capable of generating it's own video test patterns. There are two possibilities, both based on R406 and R407:

- R406 is open and R407 is fitted (= standard setting): the test pattern is a full black screen (very low light output).
- R406 is fitted and R407 is open (desolder R407 and mount it on pos. R406): the test patterns are shown in an automatic loop.

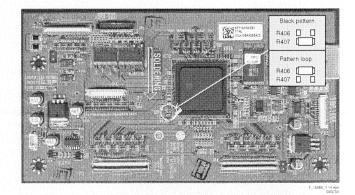


Figure 8-6 Internal test pattern mode

Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

- 9.1 X Board
- 9.2 Z Sustain Board
- 9.3 Y Drive Board
- 9.4 Y Sustain Board
- 9.5 Control Board
- 9.6 DC/DC Converter Part
- 9.7 FPC (Flexible Printed Circuit)
- 9.8 FFC (Flat Flexible Cable)
- 9.9 TCP (Tape Carrier Package)
- 9.10 IPM (Intelligent Power Module)
- 9.11 Abbreviation List
- 9.12 IC Data Sheets

9.1 X Board

9.1.1 Purpose

Receiving LOGIC signal from the CONTROL board and make ADDRESS PULSE (generates Address discharge) by ON/OFF operation, and then supplies this waveform to TCP (data).

LGE PDP

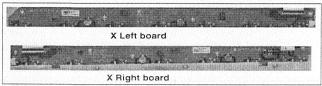
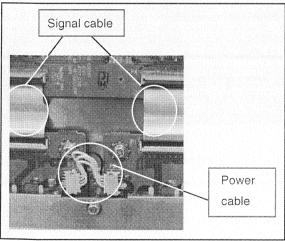


Figure 9-1 X boards

9.1.2 Dismantling

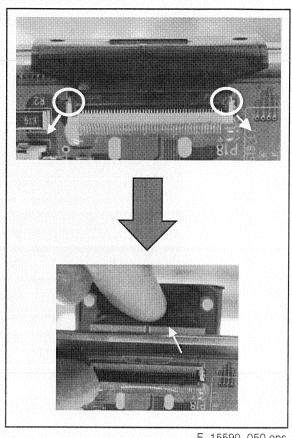
1. Remove connections between the boards:



F_15590_049.eps 070705

Figure 9-2 Between CONTROL board and X board

- 1. Lift up lock as indicated by the arrows (handle with care, as this part is easy to break).
- 2. Pull TCP as indicated (handle with care, as the TCP film part is easy to damage).



F_15590_050.eps 040705

Figure 9-3 TCP Separating

9.2 Z Sustain Board

Purpose 9.2.1

To make the SUSTAIN and ERASE pulses that generates SUSTAIN discharge in the panel by receiving LOGIC signal

CONTROL board. This waveform is then supplied to the panel through FPC (Z).

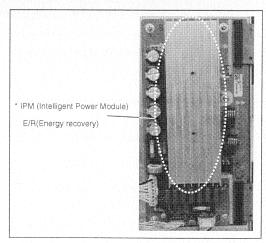


Figure 9-4 Z Sustain Board

9.2.2 Main Components

IPM, FET, DIODE, electrolytic capacitor, and E/R coil.

9.2.3 Dismantling

- 1. Pull out Locks as indicated by the arrows.
- 2. Condition in Lock part is pulled.
- 3. Pull FPC as shown by arrow.

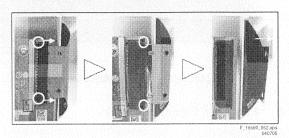


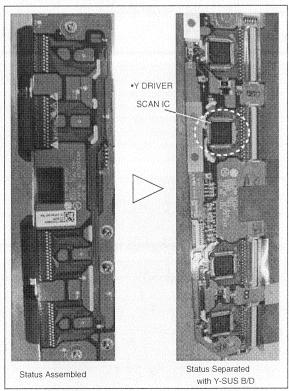
Figure 9-5 FPC Separating

Y Drive Board 9.3

9.3.1 Purpose

- To supply SUSTAIN, RESET waveform which are made by the Y SUSTAIN board and are supplied to the PDP through the SCAN DRIVER IC.
- To supply a waveform that selects the horizontal electrode (Y SUSTAIN electrode) sequentially.
 - Potential difference is 0 V between GND and Vpp of DRIVER IC in SUSTAIN period.
 - Being generated potential difference between GND and Vpp only in SCAN period.

Note: In case of 42" V7, used DRIVER SCAN ICs are in total of 8 EA (TOP, BOTTOM: each 4 EA).



F_15590_053.eps 040705

Figure 9-6 Y Drive board

9.4 Y Sustain Board

9.4.1 Purpose

Generates SUSTAIN, RESET, and Vsc (SCAN) voltages, and supplies them to the Y DRIVE board.

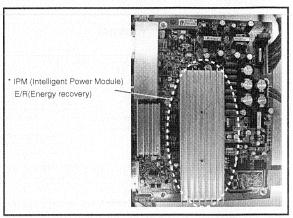


Figure 9-7 Y Sustain board

9.4.2 Main Components

IPM, diode, electrolytic capacitor, and FET.

Control Board 9.5

9.5.1 Purpose

Creates signal processing, and controls many FET on each DRIVER board with R, G, and B signals.

Firstly receive 5 V, and then use two voltages (3.3 V / 1.8 V).

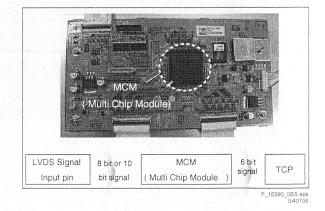


Figure 9-8 Control board

EN 30

9.

LGE PDP

9.6 DC/DC Converter Part

9.6.1 Purpose

From 5V, Vs, and Va (from PSU), the DC/DC converter makes 5V, 15V, Vy, Vsc, 5Vf, and Va, which are essential for each board.

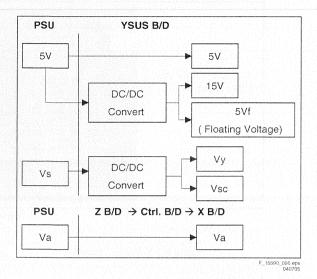


Figure 9-9 DC/DC Converter block diagram

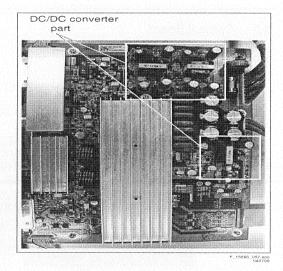


Figure 9-10 DC/DC Converter part

9.7 FPC (Flexible Printed Circuit)

9.7.1 Purpose

To supply a driving waveform to the PDP by connecting a PAD electrode of the PDP with a PWB (Y and Z boards).

- There are two types of this for the Y board: One is single-sided; the other is double-sided (these have a pattern on it)
- For Z board there is no pattern, single-sided, and Beta type (all of copper surface).

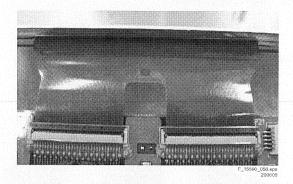


Figure 9-11 Flexible Printed Circuit

9.8 FFC (Flat Flexible Cable)

9.8.1 Purpose

For connecting LOGIC signals between boards. There are two types

- 0.5 mm pitch, 50-pin type.
- 0.5 mm pitch, 60-pin type.

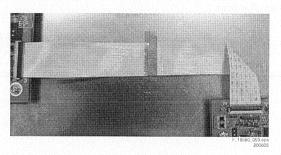


Figure 9-12 Flat Flexible Cable

9.9 TCP (Tape Carrier Package)

9.9.1 Purpose

To supply a waveform which is made by the X board to the PDP, and to select an output pin that is controlled by TCP when "on" or "off" (192 output pins per IC).

- TCP is package type, which is made by Direct Bonding between IC and electrode film.
- It is more effective than Wire Bonding type by increasing number of Data Driver IC output pins (96-pin -> 192-pins, pitch < 80 μm).

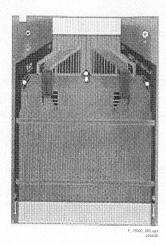
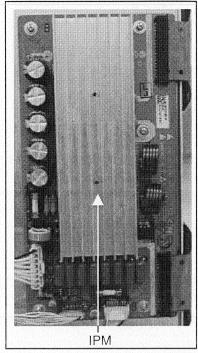


Figure 9-13 Tape Carrier Package

9.10 IPM (Intelligent Power Module)

9.10.1 Purpose

Attached at Z board and Y board, to make Sustain waveform. Sustainer: supply a square wave to the PDP to make video.



F_15590_062.eps 050705

Figure 9-14 Intelligent Power Module

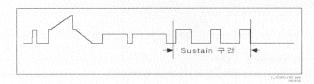


Figure 9-15 Sustain pulse (061)

9.10.2 Main Components

Heatsink, capacitor, diode, IC, resistor, transistor, and FET.

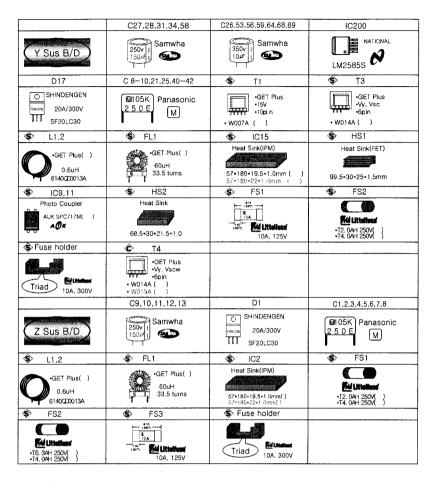
9.11 Abbreviation List

| AC | Alternating Current |
|------|---------------------------------------|
| B/D | Board |
| CLK | Clock signal |
| CTRL | Control (board) |
| DC | Direct Current |
| FET | Field Effect Transistor |
| FPC | Flexible Printed Circuit |
| I/O | Input/Output |
| IC | Integrated Circuit |
| IPM | Intelligent Power Module |
| LED | Light Emitting Diode |
| LGE | Lucky Goldstar Electronics (supplier) |
| MCM | Multi Chip Module |
| PCB | Printed Circuit Board (same as PWB) |
| PDP | Plasma Display Panel |
| PFC | Power Factor Corrector circuit |
| PSU | Power Supply Unit |
| PWB | Printed Wiring Board (same as PCB) |
| RGB | Red, Green, Blue colour space |
| STB | Stand-by signal |
| TCP | Tape Carrier Package |

9.12 IC Data Sheets

Not applicable

10. Spare Parts List



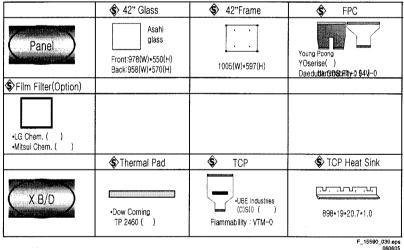


Figure 10-1 Safety component overview (for information purpose only, parts cannot be ordered!)

Plasma Module PDP42V7****

| various | | |
|---------|----------------|---------------------------|
| S001 | 9965 000 27808 | CONTROL board |
| S002 | 9965 000 27809 | Y-DRIVE TOP board |
| S003 | 9965 000 27810 | Y-DRIVE BTM board |
| S004 | 9965 000 27811 | X-LEFT board |
| S005 | 9965 000 27812 | X-RIGHT board |
| S006 | 9965 000 27813 | Y-SUS board |
| S007 | 9965 000 27814 | Z-SUS board |
| S008 | 9965 000 27815 | PSU board |
| S009 | 9965 000 29871 | Conn. assy 10P PSU=>Y-SUS |
| \$010 | 9965 000 29872 | Conn. assy 8P PSU=>Z-SUS |
| S011 | 9965 000 29873 | Conn. assy 4P PSU=>Y-SUS |
| | | |

11. Revision List

Manual xxxx xxx xxxx.0

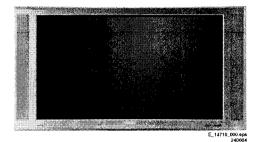
First release.

Service Service **LC4.9E**

Λ.

For manual LGE plasma panel see: 3122 785 15590

Service



ServiceManual

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Published by BB 0570 TV Service

Subject to modification

EN 3122 785 15671





LC4.9E AB

Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

1.1 Technical Specifications 1.2 Connection Overview

1.3 Chassis Overview

Notes:

Figures can deviate due to the different set executions.

Specifications are indicative (subject to change).

Technical Specifications 1.1

1.1.1 Vision

Display type Plasma

42" (107 cm), 16:9 Screen size

Resolution (HxV pixels) 852 x 480

Contrast ratio

- 42PF5520D/10 10,000:1 - 42PF7520D/10 13,000:1 Light output (cd/m²) 1500 Viewing angle (HxV degrees) 160x160 PLL Tuning system Reception standards Analogue &

digital terrestrial TV

(DVB-T)

PAL B/G. D/K, I TV Colour systems

SECAM B/G, D/K, L/L'

PAL B/G; SECAM L/L' Video playback

NTSC M/N 3.58, 4.43

Supported computer formats VGA (640x480) VGA (720x400)

> MAC (640x480) MAC (832x624) SVGA (800x600) XVGA (1024x768) WXGA (1280x768) WXGA (1280x960) WXGA (1280x1024)

VGA (720x480)

640x480i - 1fH Supported video formats

720x576i - 1fH 640x480p - 2fH 720x576p - 2fH 852x480p - 2fH

1920x1080i - 2fH

100 presets Presets/channels

Tuner bands VHF UHF

S-band Hyper-band

1.1.2 Sound

Sound systems : FM-mono

FM-stereo B/G NICAM B/G, D/K, I, L

AV Stereo

Maximum power (W_{RMS}) : 2 x 15

Miscellaneous

Power supply:

- Main's voltage (V_{AC}) : 220 - 240

- Mains frequency (Hz) : 50 / 60

Ambient conditions:

- Temperature range (°C) : +5 to +40 - Maxi mum humidity : 90% R.H. Power consumption

- Normal operation (W) : ≈ 450 - Stand-by (W) < 2

Dimensions (WxHxD cm)

: 124x68x10.4

Weight (kg)

: 42

1.2 **Connection Overview**

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

Side I/O connections

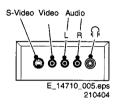


Figure 1-1 Side I/O connections

S-Video (Hosiden): Video Y/C - In

| 1 | - Ground Y | Gnd | Ţ |
|---|------------|------------------------------|----|
| 2 | - Ground C | Gnd | Ť |
| 3 | - Video Y | 1 V _{PP} / 75 ohm | ↔ |
| 4 | - Video C | 0.3 V _{PP} / 75 ohm | -⊕ |

Cinch: Video CVBS - In, Audio - In

| Ye - Video CVBS | 1 V _{PP} / 75 ohm | ⊕⊚ |
|-----------------|--------------------------------|-----------------|
| Wh - Audio L | 0.5 V _{BMS} / 10 kohm | ⊕⊚ |
| Rd - Audio R | 0.5 V _{RMS} / 10 kohm | -0 0 |

Mini Jack: Audio Head phone - Out

@"/∩ Bk - Head phone 32 - 600 ohm / 10 mW

Rear Connections 1.2.2

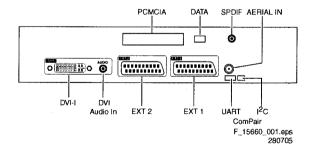


Figure 1-2 Rear I/O

Aerial - In

| | - | - IEC-type (EU) | Coax, 75 ohm | |
|--|---|-----------------|--------------|--|
|--|---|-----------------|--------------|--|

Mini Jack: Audio - In

| 1 | - Ground | Gnd | Ţ |
|---|-----------|--------------------------------|---|
| 2 | - Audio L | 0.5 V _{RMS} / 10 kohm | ⊕ |
| 3 | - Audio R | 0.5 V _{BMS} / 10 kohm | |

Service connector (ComPair)

| | , | (Oom an) | |
|---|---|---------------------------------|-----------------|
| 1 | -SDA-S | I ² C Data (0 - 5 V) | - •• |

LC4.9E AB

1.3 **Chassis Overview**

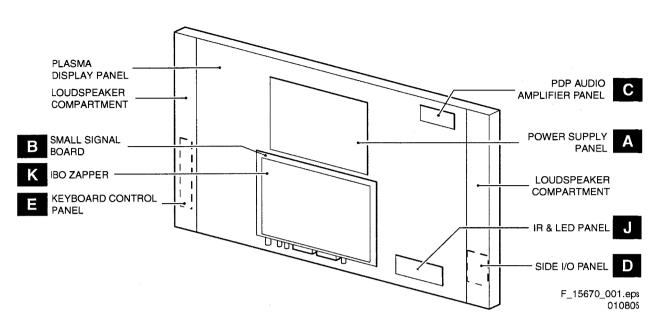


Figure 1-6 PWB locations

2

3

4

5

7

8

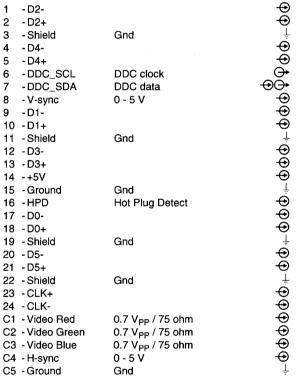
16 - n.c.

18 - Ground

20 - YC/Y - in

21 - Shield

17 - Ground Video



- Audio R 0.5 V_{BMS} / 1 kohm - Audio R 0.5 V_{RMS} / 10 kohm - Audio L 0.5 V_{RMS} / 1 kohm - Ground Audio Gnd - Ground Blue Gnd - Audio L 0.5 V_{RMS} / 10 kohm - n.c. - Function Select 0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3 - Ground Green Gnd 10 -n.c. 11 -n.c. 12 -n.c. 13 - Ground Red Gnd 14 - Ground Gnd 15 - YC/C - in 0.7 V_{PP} / 75 ohm

Gnd

Gnd

Gnd

 $0.7~V_{\mbox{\footnotesize{PP}}}\,/\,75~\mbox{\footnotesize{ohm}}$

19 - Video Mon. CVBS 1 V_{PP} / 75 ohm

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

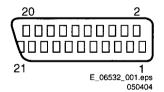


Figure 1-4 SCART connector

| 1 | - Audio R | 0.5 V _{BMS} / 1 kohm | \rightarrow |
|----|-------------------|--------------------------------|--------------------|
| 2 | - Audio R | 0.5 V _{RMS} / 10 kohm | ⊕ |
| 3 | - Audio L | 0.5 V _{RMS} / 1 kohm | → |
| 4 | - Ground Audio | Gnd | Ť |
| 5 | - Ground Blue | Gnd | ⊕ † † |
| 6 | - Audio L | 0.5 V _{BMS} / 10 kohm | ↔ |
| 7 | - Video Blue | 0.7 V _{PP} / 75 ohm | ⊕ |
| 8 | - Function Select | 0 - 2 V: INT | |
| | | 4.5 - 7 V: EXT 16:9 | |
| | | 9.5 - 12 V: EXT 4:3 | ⊕ |
| 9 | - Ground Green | Gnd | Ţ |
| 10 | - n.c. | | |
| 11 | - Video Green | 0.7 V _{PP} / 75 ohm | \bullet |
| 12 | - n.c. | • • | |
| 13 | - Ground Red | Gnd | Ť |
| 14 | - Ground | Gnd | Ť |
| | | | |

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

- 2.1 Safety Instructions
- 2.2 Warnings
- 2.3 Notes

2.1 **Safety Instructions**

Safety regulations require the following during a repair:

- Connect the set to the Mains (AC Power) via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol A, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains (AC Power) lead for external damage.
- Check the strain relief of the Mains (AC Power) cord for proper function.
- Check the electrical DC resistance between the Mains (AC Power) plug and the secondary side (only for sets that have a Mains (AC Power) isolated power supply):
 - Unplug the Mains (AC Power) cord and connect a wire between the two pins of the Mains (AC Power) plug.
 - 2. Set the Mains (AC Power) switch to the "on" position (keep the Mains (AC Power) cord unplugged!).
 - 3. Measure the resistance value between the pins of the Mains (AC Power) plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
 - 4. Switch "off" the set, and remove the wire between the two pins of the Mains (AC Power) plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD &). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
 - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
 - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 **Notes**

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground ($\frac{1}{2}$), or hot ground ($\frac{1}{2}$), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (T) and without (K) aerial signal. Measure the voltages in the power supply section both in normal operation (1) and in stand-by (1). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220
- All capacitor values are given in micro-farads (μ = x10⁻⁶), nano-farads (n= $\times 10^{-9}$), or pico-farads (p= $\times 10^{-12}$).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any

Rework on BGA (Ball Grid Array) ICs 2.3.3

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGAmas to be discarded.

Device Removal

As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are no t damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warpin g the PWB. To do this, we recommend that the board is heated_Intil it is certain that all the joints are molten. Then carefully pullt the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation

When the component has been removed, the acant IC area must be cleaned before replacing the (LF)BGA Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be moved with either a solder sucker or solder wick. The remain ing flux can be removed with a brush and cleaning agent.

LC4.9E AB

After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA. **Note:** Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement

The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information

For more information on how to handle BGA devices, visit this URL: www.atyourservice.ce.philips.com (needs subscription, not available for all regions). After login, select "Magazine", then go to "Workshop Information". Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).



E_06532_024.eps 230205

Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.



Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
 - To reach a solder-tip temperature of at least 400°C.
 - To stabilise the adjusted temperature at the solder-tip.
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint.
 Heating time of the solder-joint should not exceed ~ 4 sec.
 Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed.

To avoid wear-out of tips, switch "off" unused equipment or reduce heat.

- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to avoid mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals.
 Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be
 delivered in so-called "dry-packaging" to protect the IC
 against moisture. This packaging may only be opened
 shortly before it is used (soldered). Otherwise the body of
 the IC gets "wet" inside and during the heating time the
 structure of the IC will be destroyed due to high (steam-)
 pressure inside the body. If the packaging was opened
 before usage, the IC has to be heated up for some hours
 (around 90°C) for drying (think of ESD-protection!).
 Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid the mixing of two alloys).

Caution: For BGA-ICs, you must use the correct temperalure profile, which is coupled to the 12NC. For an overview of these profiles, visit the website www.atyourservice.ce.philips.com (needs subscription, but is not available for all regions). You will find this and more technical information within the "Magazine", chapter "Workshop information".

For additional questions please contact your local repair help desk.

2.3.5 Practical Service Precautions

- It makes sense to avoid exposure to electrical shock.
 While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- Always respect voltages. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

Directions for Use 3.

You can download this information from the following websites: http://www.philips.com/support http://www.p4c.philips.com

4. **Mechanical Instructions**

Index of this chapter:

- 4.1 Cable Dressing
- 4.2 Service Positions
- 4.3 Assy/Panel Removal
- 4.4 Set Re-assembly

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassembling instructions in described order.

4.1 **Cable Dressing**

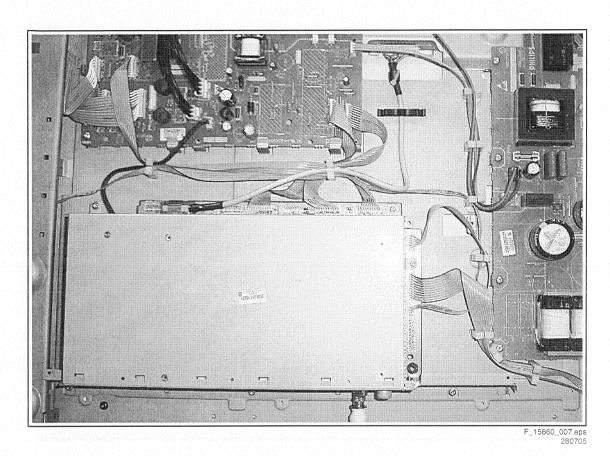


Figure 4-1 Cable dressing

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging (see figure "Rear cover").
- Foam bars (created for service).
- Aluminium service stands (created for Service).

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments. By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands



Figure 4-3 Aluminium stands (drawing of Mkl)

4.2.1 Foam Bars

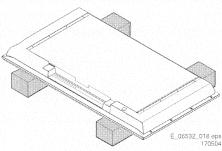


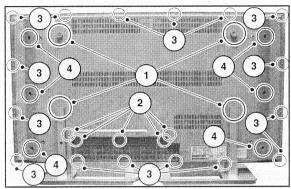
Figure 4-2 Foam bars

The aluminium stands (order code 3122 785 90480) can be mounted with the back cover removed or still left on. So, the stand can be used to store products or to do measurements. It is also very suitable to perform duration tests without taking much space, without having the risk of overheating, or the risk of products falling. The stands can be mounted and removed quick and easy with use of the delivered screws that can be tightened and loosened manually without the use of tools. See figure above.

Note: Only use the delivered screws to mount the monitor to the stands.

4.3 Assy/Panel Removal

4.3.1 Rear Cover



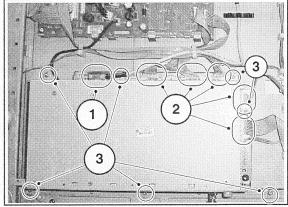
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Figure 4-4 Rear cover

Warning: Disconnect the mains power cord before you remove the rear cover.

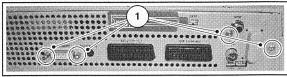
- 1. Remove the screws that secure the rear cover (see Figure "Rear cover screws"); these are:
 - a) 4 x big torx screws (1) for securing the stand/wall mount;
 - b) 5 x small torx screws (2) near the rear I/O panel;
 - c) 22 x small torx screws (3) that secure the loudspeaker compartments [6 of these screws are in sunken holes (4)] and along the edges of the rear cover.
- Lift the rear cover from the cabinet cautiously. Make sure that wires and other internal components are not damaged during cover removal.

4.3.2 Cover Shield for IBO-zapper & SSB



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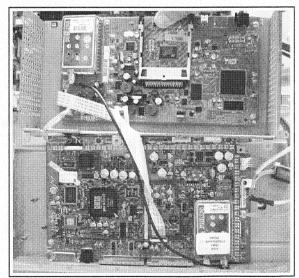
Figure 4-5 Cover shield



F_15660_010.eps 280705

Figure 4-6 DVI-I & SPDIF connector screws

- Very cautiously disconnect the LVDS cable (1) from the SSB panel (see Figure "Cover shield"). Notice that this cable is very fragile.
- Unplug the black cable coming from the IBO zapper/SSB board from the Audio/STBY board (see Figure "Cover shield").
- Remove all other cables (2) from the IBO zapper/SSB board (see Figure "Cover shield").
- Remove the 5 fixation screws that connect the top shielding with the bottom shielding, and also the 2 fixation screws that connect it with the rear connector plate, see Figure "Cover shield".
- Remove the fixation screws from the DVI-I connector and from the SPDIF connector, see Figure "DVI-I & SPDIF connector screws (1)".
- 6. Remove the upper part of the shield (with the IBO zapper attached to it) from the lower part of the shield (on which the SSB board is located), by unhooking it from its brackets. Be careful not to damage the LVDS connector on the SSB board, see Figure "Cover shield".
- Finally, remove the IBO zapper (attached to the top shielding with 4 screws), and the SSB board (attached to the lower shielding with 2 screws), see Figure "IBO zapper & SSB board".



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Figure 4-7 IBO-zapper & SSB

4.4 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original positions. See Figure "Cable dressing". Be careful with the fragile LVDS cable.
- For a complete description of the Plasma panel, see the LGE plasma panel Service Manual (12nc is listed on the frontpage).

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

- 5.1 Test Points
- 5.2 Service Modes
- 5.3 Problems and Solving Tips Related to CSM
- 5.4 Service Tools
- 5.5 Error Codes
- 5.6 The Blinking LED Procedure
- 5.7 Fault Finding and Repair Tips

5.1 Test Points

This chassis is equipped with test points in the service printing. In the schematics test points are identified with a rectangle box around Fxxx or Ixxx.

Perform measurements under the following conditions:

- Television set in Service Default Alignment Mode.
- Video input: Colour bar signal.
- · Audio input: 3 kHz left channel, 1 kHz right channel.

5.2 Service Modes

Service Default mode (SDM) & Service Alignment Mode (SAM) offers several features for the service technician, while the Customer Service Mode (CSM) & Digital Customer Service Mode (DCSM) are used for communication between the call centre and the customer.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the possibilities of structured troubleshooting, error code reading, and software version readout for all chassis. *Minimum requirements for ComPair:* a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a predefined setting for measurements to be made.
- To override software protections.
- · To start the blinking LED procedure.
- · To inspect the error buffer.
- · To check the life timer.

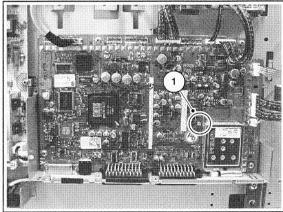
Specifications

- Tuning frequency: 475.25 MHz.
- Colour system: PAL-BG.
- All picture settings at 50% (brightness, colour contrast, hue).
- Bass, treble, and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled. The service unfriendly modes are:
 - Timer / Sleep timer.
 - Child / parental lock.
 - Blue mute.
 - Hotel / hospital mode.
 - Auto shut off (when no "IDENT" video signal is received for 15 minutes).
 - Skipping of non-favourite presets / channels.
 - Auto-storage of personal presets.
 - Auto user menu time-out.
 - Auto Volume Levelling (AVL).

How to Enter

To enter SDM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "062596" directly followed by the MENU button (do not allow the display to time out between entries while keying the sequence).
- Short "Service" jumpers on the TV board during cold start
 and apply mains (see Figure "Service jumpers"). Then
 press the mains button (remove the short after start-up).
 Caution: Entering SDM by shorting "Service" jumpers will
 override the +8V-protection. Do this only for a short period.
 When doing this, the service-technician must know exactly
 what he is doing, as it could damage the television set.
- Or via ComPair.



F_15270_053.ep

Figure 5-1 Service jumpers

After entering SDM, the following screen is visible, with SDM in the upper right corner of the screen to indicate that the television is in Service Default Mode.

00035 LC4XEP1 1.14/S4XGNV 1.17 SDM ERR 0 0 0 0 0 OP 000 057 140 032 120 128 000

> F_15430_039.eps 080605

Figure 5-2 SDM menu

How to Navigate

Use one of the following methods:

- When you press the MENU button on the remote control, the set will switch on the normal user menu in the SDM
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SDM to SAM and reverse.

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set. If you turn the television set off by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SDM when mains is re-applied, and

5.2.2 Service Alignment Mode (SAM)

the error buffer is not cleared.

Purpose

- To change option settings.
- To display / clear the error code buffer.
- To perform alignments.

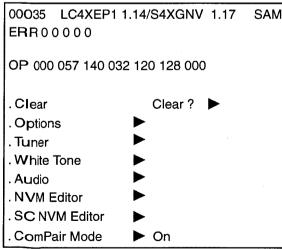
- Operation hours counter (maximum five digits displayed).
- Software version, Error codes, and Option settings display.
- Error buffer clearing.
- Option settings.
- AKB switching.
- Software alignments (Tuner, White Tone, Geometry & Audio).
- NVM Editor.
- ComPair Mode switching.

How to Enter

To enter SAM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "062596" directly followed by the OSD/ STATUS/INFO(I+) button (do not allow the display to time out between entries while keying the sequence).
- Or via ComPair.

After entering SAM, the following screen is visible, with SAM in the upper right corner of the screen to indicate that the television is in Service Alignment Mode.



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Figure 5-3 SAM menu

Menu Explanation

- 1. LLLLL. This represents the run timer. The run timer counts normal operation hours, but does not count standby hours.
- 2. AAABCD-X.Y. This is the software identification of the main microprocessor:
 - A= the project name (LC04.x).
 - B= the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.
 - C= the software diversity:
 - Europe: T= 1 page TXT, F= Full TXT, V= Voice
 - LATAM and NAFTA: N= Stereo non-dBx, S= Stereo dBx.
 - Asian Pacific: T= TXT, N= non-TXT, C= NTSC.
 - ALL regions: M= mono, D= DVD, Q= Mk2.
 - D= the language cluster number.
 - X= the main software version number (updated with a major change that is incompatible with previous versions).
 - Y= the sub software version number (updated with a minor change that is compatible with previous versions).
- 3. **EEEEE-F.GG.** This is the software identification of the Scaler:
 - EEEEEE= the scaler sw cluster
 - F= the main sw version no.
 - GG= the sub-version no.
- SAM. Indication of the Service Alignment Mode.
- Error Buffer. Shows all errors detected since the last time the buffer was erased. Five errors possible.
- Option Bytes. Used to set the option bytes. See "Options" in the Alignments section for a detailed description. Seven codes are possible.
- 7. Clear. Erases the contents of the error buffer. Select the CLEAR menu item and press the MENU RIGHT key. The content of the error buffer is cleared.
- 8. Options. Used to set the option bits. See "Options" in the Alignments section for a detailed description.
- Tuner. Used to align the tuner. See "Tuner" in the Alignments section for a detailed description.
- 10. White Tone. Used to align the white tone. See "White Tone" in the Alignments section for a detailed description.
- 11. Audio. No audio alignment is necessary for this television
- 12. NVM Editor. Can be used to change the NVM data in the television set. See table "NVM data" further on.
- 13. SC NVM Editor. Can be used to edit Scaler NVM.
- 14. ComPair. Can be used to switch on the television to in System Programming (ISP) mode, for software uploading via ComPair.

Caution: When this mode is selected without ComPair connected, the TV will be blocked. Remove the AC pow er to reset the TV.

How to Navigate

- In SAM, select menu items with the MENU UP/DOWNke ys on the remote control transmitter. The selected item will be highlighted. When not all menu items fit on the screen use the MENU UP/DOWN keys to display the next / previous menu items.
- With the MENU LEFT/RIGHT keys, it is possible to:
 - Activate the selected menu item.
 - Change the value of the selected menu item.
 - Activate the selected submenu.
- In SAM, when you press the MENU button twice, the set will switch to the normal user menus (with the SAM nodle still active in the background). To return to the SAM nemu press the MENU or STATUS/EXIT button.
- When you press the MENU key in while in a submenuyou will return to the previous menu.

5.

How to Store SAM Settings

To store the settings changed in SAM mode, leave the top level SAM menu by using the POWER button on the remote control transmitter or the television set.

How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set. If you turn the television set "off" by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SAM when mains is re-applied, and the error buffer is not cleared.

5.2.3 Customer Service Mode (CSM)

Purpose

The Customer Service Mode shows error codes and information on the TV's operation settings. The call centre can instruct the customer (by telephone) to enter CSM in order to identify the status of the set. This helps the call centre to diagnose problems and failures in the TV set before making a service call.

The CSM is a read-only mode; therefore, modifications are not possible in this mode.

How to Enter

To enter CSM, press the following key sequence on the remote control transmitter: "123654" (do not allow the display to time out between entries while keying the sequence).

Upon entering the Customer Service Mode, the following screen will appear:

1 00035 LC4XEP1 1.14/S4XGNV 1.17 CSM 2 CODES 0 0 0 0 0 3 OP 000 057 140 032 120 128 000 4 5 6 NOT TUNED 7 PAL 8 STEREO 9 CO 50 CL 50 BR 50 0 AVL Off

> F_15430_040.eps 080605

Figure 5-4 CSM menu

Menu Explanation

- Indication of the decimal value of the operation hours counter, Software identification of the main microprocessor (see "Service Default or Alignment Mode" for an explanation), and the service mode (CSM = Customer Service Mode).
- Displays the last five errors detected in the error code buffer.
- 3. Displays the option bytes.
- 4. Displays the type number version of the set.
- Reserved item for P3C call centres (AKBS stands for Advanced Knowledge Base System).
- Indicates the television is receiving an "IDENT" signal on the selected source. If no "IDENT" signal is detected, the display will read "NOT TUNED"
- Displays the detected Colour system (e.g. PAL/NTSC).

- 8. Displays the detected Audio (e.g. stereo/mono).
- 9. Displays the picture setting information.
- 10. Displays the sound setting information.

How to Exit

To exit CSM, use one of the following methods:

- Press the MENU, STATUS/EXIT, or POWER button on the remote control transmitter.
- Press the POWER button on the television set.

5.2.4 Digital Customer Service Mode (DCSM)

Purpose

The Digital Customer Service Mode shows error codes and information on the IBO Zapper module operation settings. The call centre can instruct the customer to activate DCSM by telephone and read off the information displayed. This helps the call centre to diagnose problems and failures in the IBO Zapper module before making a service call.

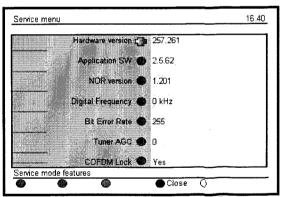
The DCSM is a read-only mode; therefore, modifications are not possible in this mode.

How to activate

To activate the DCSM, put the television in its digital mode (via the A/D button on the remote control).

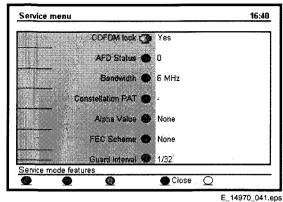
- Press the "Digital" Menu button on the remote control to activate the digital user menu ("Setup").
- Activate the "Information" sub menu (via the "down" and "right" cursor buttons).
- In the "Information" sub menu, press the following buttons on the remote control to activate the DCSM: "GREEN RED YELLOW 9 7 5 9". Then, the "Service menu" will appear (see figures below).

Menu explanation



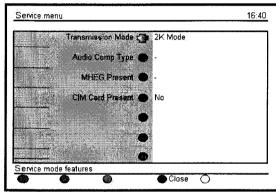
E_14970_040.eps 090904

Figure 5-5 DCSM menu - 1



LC4.9E AB

Figure 5-6 DCSM menu - 2



E_14970_042.eps 090904

Figure 5-7 DCSM menu - 3

- Hardware version: This indicates the version of the IBO Zapper module hardware.
- Application SW: The application software version.
- NOR Version: The NOR Flash image software version
- Digital Frequency: The digital frequency that the set is tuned to.
- Bit Error Rate: The error rate measured before the error correction algorithm circuitry. (this value gives an impression of the received signal)
- Tuner AGC: Tuner AGC value.
- COFDM Lock: Indication if COFDM decoder is locked.
- AFD Status: Status of the Active Picture Format Descriptor.
- **Terrestrial Delivery System Parameters:**
 - Bandwidth: Bandwidth of the received signal.
 - Constellation Pattern: Displays the signal constellation.
 - Alpha Value: Displays the Alpha Value.
 - FEC Scheme: Displays the Forward Error Correcting Scheme
 - Guard Interval: Displays the value for the Guard Interval.
 - Transmission Mode: Displays the Transmission Mode.
- 10. Audio Comp Type: Type of detected audio stream.
- 11. MHEG Present: Indicates if MHEG is present or not.
- 12. CIM Card Present: Indicates if CIM card is present or not.

How to exit

Press the BLUE button on the Remote Control to exit DCSM.

5.3 **Problems and Solving Tips Related to CSM**

5.3.1 Picture Problems

Note: The problems described below are all related to the TV settings. The procedures used to change the value (or status) of the different settings are described.

Picture too Dark or too Bright

If:

- The picture improves when you press the AUTO PICTURE button on the remote control transmitter, or
- The picture improves when you enter the Customer Service Mode.

Then:

- 1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
- 2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
- In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
- Press the MENU LEFT/RIGHT keys to enter the PICTURE
- Use the MENU UP/DOWN keys (if necessary) to select BRIGHTNESS.
- Press the MENU LEFT/RIGHT keys to increase or decrease the BRIGHTNESS value.
- Use the MENU UP/DOWN keys to select PICTURE.
- Press the MENU LEFT/RIGHT keys to increase or decrease the PICTURE value.
- Press the MENU button on the remote control transmitter twice to exit the user menu.
- 10. The new PERSONAL preference values are automatically stored.

White Line around Picture Elements and Text

The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter.

- 1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
- 2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
- In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
- Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
- Use the MENU UP/DOWN keys to select SHARPNES\$. 5.
- Press the MENU LEFT key to decrease the SHARPNESS value.
- Press the MENU button on the remote control transmitter twice to exit the user menu.
- The new PERSONAL preference value is automatically stored.

Snowy Picture

Check CSM line 6. If this line reads "Not Tuned", check the

- Antenna not connected. Connect the antenna.
- No antenna signal or bad antenna signal. Connect a proper antenna signal.
- The tuner is faulty (in this case line 2, the Error Buffer line, will contain error number 10). Check the tuner and replace/ repair the tuner if necessary.

If:

 The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter,

Then:

- Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
- Press the MENU button on the remote control transmitter. This brings up the normal user menu.
- In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
- Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
- 5. Use the MENU UP/DOWN keys to select COLOR.
- 6. Press the MENU RIGHT key to increase the COLOR value.
- Press the MENU button on the remote control transmitter twice to exit the user menu.
- 8. The new PERSONAL preference value is automatically stored.

Menu Text not Sharp Enough

If:

 The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter,

Then:

- Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
- Press the MENU button on the remote control transmitter. This brings up the normal user menu.
- 3. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
- Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
- 5. Use the MENU UP/DOWN keys to select PICTURE.
- Press the MENU LEFT key to decrease the PICTURE value.
- Press the MENU button on the remote control transmitter twice to exit the user menu.
- The new PERSONAL preference value is automatically stored.

5.4 Service Tools

5.4.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

- ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
- ComPair allows very detailed diagnostics (on I²C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I²C commands yourself because ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.

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For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair faultfinding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television):
 ComPair can automatically read out the contents of the
 entire error buffer. Diagnosis is done on I²C/UART level.
 ComPair can access the I²C/UART bus of the television.
 ComPair can send and receive I²C/UART commands to
 the microcontroller of the television. In this way, it is
 possible for ComPair to communicate (read and write) to
 devices on the I²C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the microcontroller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the faultfinding tree by asking you questions (e.g. Does the screen give a picture? Click on the correct answer: YES / NO) and showing you examples (e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope). You can answer by clicking on a link (e.g. text or a waveform picture) that will bring you to the next step in the faultfinding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

How To Connect

This is described in the chassis faultfinding database in ComPair.

Caution: It is compulsory to connect the TV to the PC as shown in the picture below (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

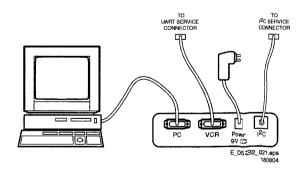


Figure 5-8 ComPair interface connection

How To Order

- ComPair order codes (EU/AP/LATAM):
- Starter kit ComPair32/SearchMan32 softwa re and ComPair interface (excl. transformer): 312 785 90450.
- ComPair interface (excl. transformer): 482: 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 7/5 60050.
- ComPair32 CD (update): 3122 785 60070(year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 600 € (year 2002), 3122 785 60120 (year 2003), 3122 785 60 ⊜0 (year 2004).
- ComPair firmware upgrade IC: 3122 785 \$>510.

- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- · ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

Note: If you encounter any problems, contact your local support desk.

5.4.2 LVDS Tool

Introduction

This service tool (also called "ComPair Assistant 1") may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) or the display of a Flat TV is defective.

Furthermore it is possible to program EPLDs with this tool (Byteblaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (>= 1280x768). Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

How to Connect

Connections are explained in the user manual, which is delivered with the tool.

Note: To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05). For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

How to Order

- LVDS tool (incl. two LVDS cables: 31p and 20p): 3122 785 90671.
- Service Manual LVDS tool: 3122 785 00810.
- LVDS cable 20p (for Telra 14-inch): 3122 785 90810.
- LVDS cable 30p (for LC4.3): 3122 785 90820.
- LVDS cable 41p-to-31p for CA1 (dual -> single LVDS): 3122 785 90830.

5.5 Error Codes

The error code buffer contains all errors detected since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is displayed at the left side and all other errors shift one position to the right.

5.5.1 How to Read the Error Buffer

You can read the error buffer in 3 ways:

On screen via the SAM (if you have a picture).

Examples:

- ERROR: 0 0 0 0 0 : No errors detected
- ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
- ERROR: 9 6 0 0 0: Error code 6 was detected first and error code 9 is the last detected (newest) error

- Via the blinking LED procedure (when you have no picture). See "The Blinking LED Procedure".
- Via ComPair.

5.5.2 How to Clear the Error Buffer

The error code buffer is cleared in the following cases:

- By using the CLEAR command in the SAM menu:
 - To enter SAM, press the following key sequence on the remote control transmitter: "062596" directly followed by the OSD/STATUS button (do not allow the display to time out between entries while keying the sequence).
 - Make sure the menu item CLEAR is highlighted. Use the MENU UP/DOWN buttons, if necessary.
 - Press the MENU RIGHT button to clear the error buffer. The text on the right side of the "CLEAR" line will change from "CLEAR?" to "CLEARED"
- If the contents of the error buffer have not changed for 50 hours, the error buffer resets automatically.

Note: If you exit SAM by disconnecting the mains from the television set, the error buffer is not reset.

5.5.3 Error Codes

In case of non-intermittent faults, write down the errors present in the error buffer and clear the error buffer before you begin the repair. This ensures that old error codes are no longer present.

If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error and not the actual cause of the problem (for example, a fault in the protection detection circuitry can also lead to a protection).

Table 5-1 Error code overview

| Error | Device | Error Description | Check Item | Diagram |
|-------|--------------------------|--|-------------------------|-----------------|
| 0 | Not applicable | No Error | | |
| 1 | Not applicable | Mis-match of TV Hercules SW and Scaler SW | - | _ |
| 2 | Not applicable | - | • | - |
| 3 | Not applicable | • | - | - |
| 4 | Genesis Scaler Flash-ROM | I ² C error while communicating with the Genesis Scaler and/or Flash-ROM is faulty/empty | 7801 7B01 | B7 + B3 |
| 5 | Scaler supply 7752 | +5V protection | 7752 | B6 |
| 6 | Not applicable | General I ² C error | 1102, 7L04, 7M00 | B1+B18 + B19 |
| 7 | ADC | I ² C error | 7L04 | B18 |
| 8 | Scaler EEPROM | I ² C error while communicating with the Scaler EEPROM | 7C01 | B11 |
| 9 | Hercules EEPROM | I ² C error while communicating with the Hercules EEPROM (NVM for TV). Remark: when the Hercules EEPROM is defective, the Hercules should operate with its default values. | 7207 | B2 |
| 10 | Tuner | I ² C error while communicating with the PLL tuner | 1102,F102,F104, F107 | B1 |
| 11 | Columbus | I ² C error while communicating with the 2D/3D combfilter Columbus | 7M00 | B19 |
| 12 | Not applicable | - | - | |

| Error | Device | Error Description | Check Item | Diagram |
|-------|---|---|---|---|
| 13 | HDMi Panellink Receiver/ Decoder | I ² C error while communicating with the iBoard HDMI Panellink Receiver/ Decoder (only in NAFTA and AP sets) | 7D03 | B12 (only in NAFTA and AP sets) |
| 14 | Scaler SDRAM | Read-write error with the Scaler SDRAM | 7B01 | B10 |
| 15 | Not applicable | - | - | - |
| 16 | EPLD | I ² C error while communicating with EPLD | 7N02 | B20 + B21 |
| 17 | Digital Module (only on Digital sets) | I ² C error while communicating with the Digital Module (only on Digital sets) | Digital Module (only on Digital sets) | |
| 18 | Not applicable | - | - |] |

5.6 The Blinking LED Procedure

Using this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful when there is no picture.

When the SDM is entered, the front LED will blink the contents of the error-buffer:

- The LED blinks with as many pulses as the error code number, followed by a time period of 1.5 seconds, in which the LED is off.
- Then this sequence is repeated.

Any RC5 command terminates this sequence.

Example of error buffer: **12 9 6 0 0**After entering SDM, the following occurs:

- 1 long blink of 5 seconds to start the sequence,
- 12 short blinks followed by a pause of 1.5 seconds,
- 9 short blinks followed by a pause of 1.5 seconds,
- 6 short blinks followed by a pause of 1.5 seconds,
- 1 long blink of 1.5 seconds to finish the sequence,
- · The sequence starts again with 12 short blinks.

5.7 Fault Finding and Repair Tips

Notes:

- It is assumed that the components are mounted correctly with correct values and no bad solder joints.
- Before any fault finding actions, check if the correct options are set.

5.7.1 NVM Editor

In some cases, it can be handy if one directly can change the NVM contents. This can be done with the "NVM Editor" in SAM mode. With this option, single bytes can be changed.

Caution:

- Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!
- Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TVset!
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the organial settings, if the new settings tumout to be incorrect.

Table 5-2 NVM editor overview

| | Hex | Dec | Descri ption | | | |
|--------|--------|--------|----------------|--|--|--|
| .ADR | 0x000A | 10 | Existing value | | | |
| .VAL | 0x0000 | 0 | Ne⊮ ✓alue | | | |
| .Store | | Store? | | | | |

| Byte Nr. | Bit | Feature/Mode | Description | 42PF7520D/10 | 42PF5520D/10 |
|----------|-----|--------------------|--|--------------|--------------|
| Byte 0 | 0 | QSS (LSB) | Mode of quasi split sound amplifier | 1 | 1 |
| 174(dec) | 1 | FMI | Connection of output of QSS amplifier | 1 | 1 |
| | 2 | HCO | EHT tracking mode | 0 | 0 |
| | 3 | HP2 | Synchronization of OSD/Text display | 1 | 1 |
| | 4 | FSL | Forced slicing level for vertical sync | 1 | 1 |
| | 5 | TFR | DC transfer ratio of luminance signal | 1 | 1 |
| | 6 | OSVE | Black current measuring in overscan | 0 | 0 |
| | 7 | MVK (MSB) | (For Future Usage, as defined by software) | 0 | 0 |
| | | Total Dec Values | | 59 | 59 |
| | | Total Hex Values | | 3B | 3B |
| | | | | | T |
| Byte 1 | 0 | PSE | PSE | 0 | 0 |
| 175(dec) | 1 | OPC | OPC | 0 | 0 |
| | 2 | PRIS | PRIS | 0 | 0 |
| | 3 | CONTINUOUS FACTORY | Continuous factory mode | 0 | 0 |
| | 4 | WHITE PATTERN ON | Last color pattern status in factory mode | 0 | 0 |
| | 5 | SDM MODE | Service default mode on/off | 0 | 0 |
| | 6 | SAM MODE | Service Align mode on/off | 0 | 0 |
| | 7 | SVMA | Scavm On / Off | 0 | 0 |
| | Ė | Total Dec Values | | 0 | 0 |
| | | Total Hex Values | | 00 | 00 |
| | | | | | |
| Byte 2 | 0 | MUTE STATUS | Mute status | 0 | 0 |
| 176(dec) | 1 | TUNER AUTO MODE | Auto mode | 1 | 1 |
| | 2 | CABLE MODE | Cable/Antenna mode | 0 | 0 |
| | | LAST POWER MODE | Last power status of the set | 1 | 1 |
| | - 1 | CHILD LOCK MODE | Child lock enabled | 0 | 0 |
| | 5 | SURF MODE | Surf mode on/off | 0 | 0 |
| | 6 | FACTORY MODE | Factory mode on | 0 | 0 |
| | 7 | PSNS | For PAL color enhancement in ES4 | 1 | 1 |
| | _ | Total Dec Values | 1 of 1 / Le doler of mandoment in Ed- | 138 | |
| | | Total Hex Values | | 8A | 8A |
| | | Total Flox Values | | 0/1 | 07 |
| Byte 3 | 0 | RADIO/TV MODE | Radio mode or TV mode | 0 | 0 |
| 177(dec) | | WAKE-UP MODE | WAKE-UP MODE | 0 | 0 |
| () | | HOTEL MODE | TV in Hotel mode | 0 | 0 |
| | | HOTEL KBD LOCK | Keyboard locked | 0 | 0 |
| | | HBL | HBL | 0 | 0 |
| | 5 | BLS | Blue stretch mode | 1 | 1 |
| | 6 | SL | SL SL | 0 | 0 |
| | 7 | CFA0 | Comb filter On/Off | 1 | 1 |
| | | Total Dec Values | Comb liner On/On | 160 | 160 |
| | | Total Hex Values | | A0 | A0 |
| | | Total Flex Values | | AU | AU |
| Byte 4 | 0 | Signal Strength | Signal Strength Switch in MK2 | 0 | 0 |
| 178(dec) | | LPG | LPG | 0 | 0 |
| () | | DVD TRAY LOCK | Lock/Unlock DVD tray | 0 | 0 |
| | | SCRSAVER MODE | Screen saver mode | _ | |
| | | BKS | Black Stretch Mode | 1 | 1 |
| | | | | 1 | 1 |
| | | BSD | Black Stretch Depth | 1 | 1 |
| | | CRA0 | Coring on SVM | 1 | 1 |
| | 7 | PIP QSS | PIP QSS | 0 | 0 |
| | | Total Dec Values | | 120 | 120 |
| | | Total Hex Values | İ | 78 | 78 |

| Byte Nr. | Bit | Feature/Mode | Description | 42PF7520D/10 | 42PF5520D/10 |
|----------|-----|----------------------|---|--------------|--------------|
| Byte 5 | 0 | FFI | Fast Filter | 0 | 0 |
| 179(dec) | 1 | NNR | No red reduction during blue stretch | 1 | 1 |
| | 2 | MUS | NTSC matrix | 1 | 1 |
| | 3 | GAM | Gamma control | 1 | 1 |
| | 4 | CBS | Control sequence of beam current limiting | 0 | 0 |
| | 5 | LLB | Low level of beam current limiter | 0 | 0 |
| | 6 | DSA | Dynamic skin tone angle area | 1 | 1 |
| | 7 | DSK | Dynamic skin tone angle on/ off | 0 | 0 |
| | | Total Dec Values | | 78 | 78 |
| | | Total Hex Values | | 4E | 4E |
| Byte 6 | 0 | LTI status | LTI last status | 1 | 1 |
| 180(dec) | 1 | Inc_Life_Time | Inc_Life_Time | 0 | 0 |
| | 2 | PC_Mode | PC_Mode | 0 | 0 |
| | 3 | HD_Mode | HD_Mode | 0 | 0 |
| | 4 | Tact_Switch | Tact_Switch | 0 | 0 |
| | 5 | Set_In_Special_Stby | Set_In_Special_Stby | 0 | 0 |
| | 6 | Hotel_OSDDisplay | Hotel_OSDDisplay | 0 | 0 |
| | 7 | Hotel_MonitorOut | Hotel_MonitorOut | 0 | 0 |
| | | Total Dec Values | | 1 | 1 |
| | | Total Hex Values | | 01 | 01 |
| Byte 7 | 0 | Hotel_IconMode | Hotel_IconMode | 0 | 0 |
| 181(dec) | 1 | DBE | DBE | 1 | 1 |
| | 2 | SD | SD | 0 | 0 |
| | 3 | Set_in_PC_Sleep_Mode | Set_in_PC_Sleep_Mode | 0 | 0 |
| | 4 | Reserved | Reserved | 0 | 0 |
| | 5 | Reserved | Reserved | 0 | 0 |
| | 6 | Reserved | Reserved | 0 | 0 |
| | 7 | Reserved | Reserved | 0 | 0 |
| | | Total Dec Values | | 2 | 2 |
| | | Total Hex Values | | 02 | 02 |
| | | | | | |

5.7.2 Load Default NVM Values

In case a blank NVM is placed or when the NVM content is corrupted, default values can be downloaded into the NVM. (For empty NVM replacement, short the SDM with a jumper and apply the mains voltage. Remember to remove the jumper after the reload is completed). After the default values are downloaded, it will be possible to start up and to start aligning the TV set. This is no longer initiated automatically; to initiate the download the following action has to be performed:

- Switch "off" the TV set by disconnecting the AC Power plug.
- 2. Short circuit the SDM jumpers (keep short-circuited).
- Press P+ or Ch+ on the local keyboard (and keep it pressed).
- 4. Switch on the TV set via the AC Power plug.
- Keep pressing the P+/Ch+ button until the set has started up and the SDM is shown.

Alternative method:

- 1. Go to SAM.
- 2. Select NVM Editor (not SC NVM Editor).
- 3. Select ADR (address) to 1 (dec).
- 4. Change the VAL (value) to 170 (dec).
- 5. Store the value.
- 6. Disconnect the mains plug and wait for a few seconds.
- Reconnect the mains plug and wait until the set goes into its standby mode (red LED lights up).
- 8. Restart the set.

5.7.3 Tuner and IF

No Picture in RF Mode, but there is a Noise Raster

- Check whether picture is present in AV. Inot, go to Video processing troubleshooting section.
- 2. If present, check if the Option settings are correct.
- Check if all the supply voltages are present (3.3/5/8/12/33 V).
- 4. Check if the I²C lines are working correctly (3.3 V).
- Manually store a known channel and check if there is IF output at Tuner pin 11.
- Check the tuning DC voltage at pin 2 of the Tuner. The DC voltage should vary according to the freque ncy/channel being chosen.
- If the tuning voltage is OK, check the tuner output, pin 11.
- If it has no output, the Tuner may have adefect. Change the Tuner.

Sound in Picture Problem for L' System (reli¶ng horizontal lines)

- 1. Check whether AGC L' in SAM mode is let to 0.
- 2. If yes, align the set to correct value.

Required System is not Selected Correctly

Check whether a Service jumper (#4204 & 405, 0805 size) is present. If yes, remove it.

Video Processing

No Power

- 1. Check +12 V and 3V3 at position 1J02.
- 2. If no supply, check the connector 1J02.
- 3. If it is correct, check the power supply board.

Power Supply is Correct, but no Green LED

1. Check if the connectors 1K00 are properly inserted.

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2. If they are inserted correctly, check if the 3V3 is present.

No Picture Display (blank screen with correct sound

- 1. Check whether the user menu is visible.
- If the user menu is OK, activate teletext mode.
- 3. If teletext is OK, the problem is in the ADC (B18) & Columbus 3D combfilter (B19), if present (depending on model, see also paragraph "Teletext Path" in chapter 9).
- If the user menu is not visible, check if the LCD panel backlight is ON.
- If the backlight is OFF, the problem is in the power supply board or LCD panel. Also check pin 12 (LAMP_ON_OFF) of 1J02. It should be HIGH during normal operation.

Note: For faultfinding purposes, it is important to know the following: in Pixel Plus and Digital Crystal Clear models, which have an ADC (B18) and Columbus 3D combfilter (B19), the digital input of the scaler is used for the digital video path (Hercules output), whereas the analogue RGB input (analogue input of the scaler) is only used for teletext. This means that no mixed mode (video plus teletext simultaneously) is possible. If there is sound and teletext, but no video and user menu (blank screen), the digital path (Hercules - ADC - Columbus - Scaler) is faulty. If there is sound but no teletext, the back-end part (Scaler - LCD panel) is faulty. In Crystal Clear models, which do not have an ADC and Columbus, the RGB path (analogue input of scaler) is used for both video and teletext.

No TV. but PC is Present

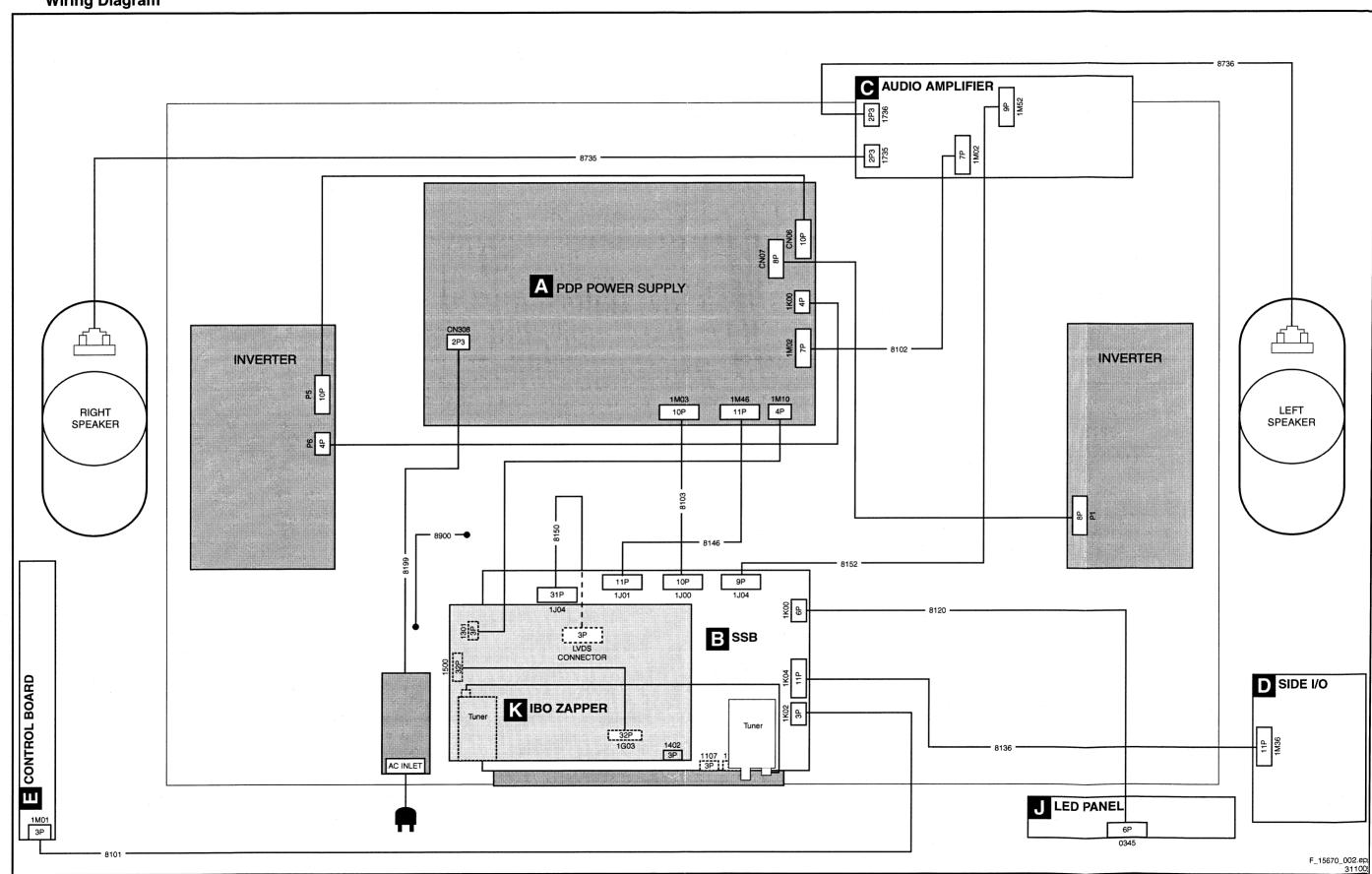
- 1. Check if Hsync_SDTV and Vsync_SDTV are present at pin 1 & pin13 of 7E03.
- If they are present, check teletext output.
- If there is no teletext output, the IC TDA150xx may be defect.

Power Supply 5.7.5

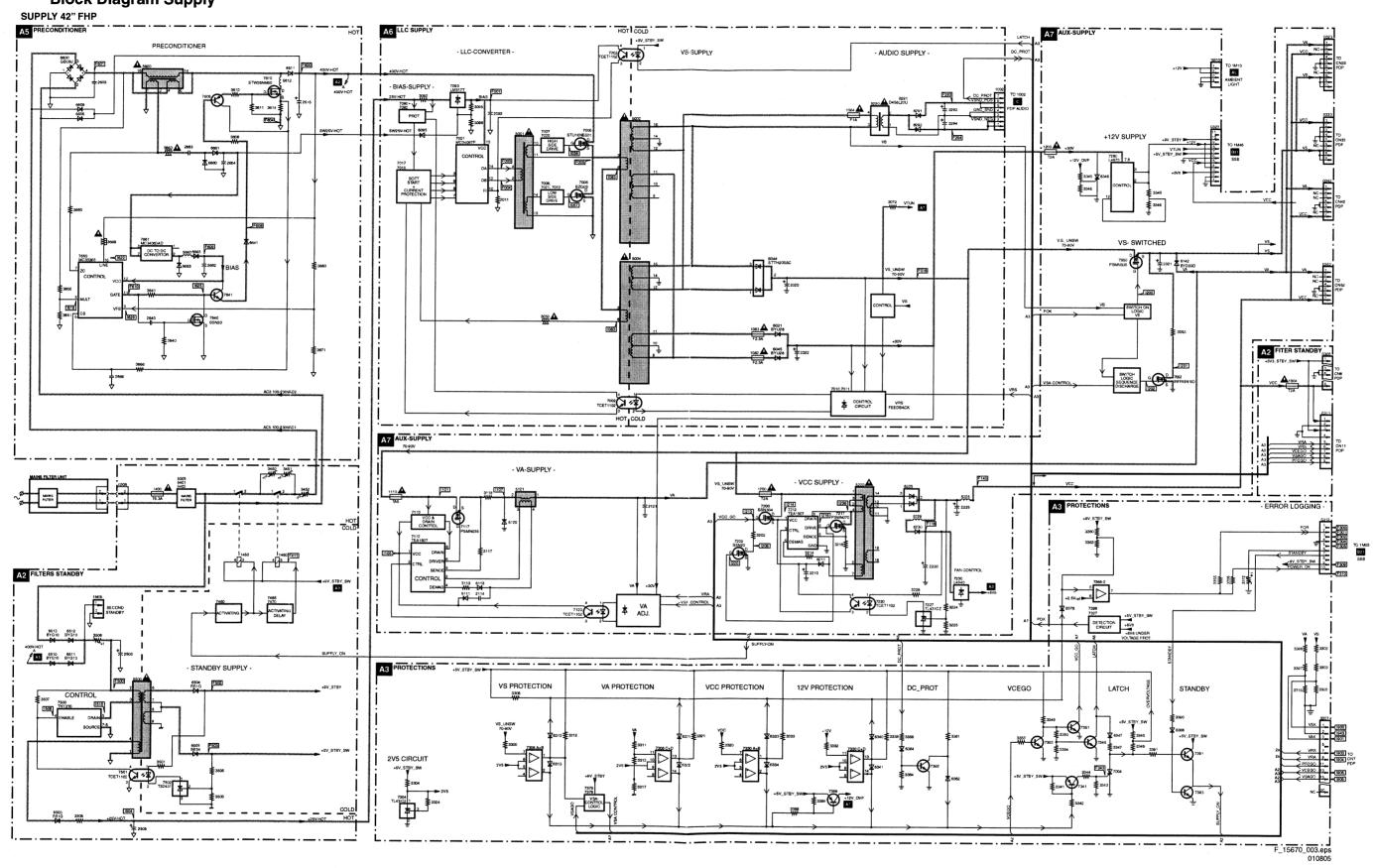
In case the power supply does not work, check (apart from the obvious fuse-check) if the oscillators in IC7001 and IC7U01 are working. If not, replace the ICs.

6. Block Diagrams, Testpoint Overviews, and Waveforms

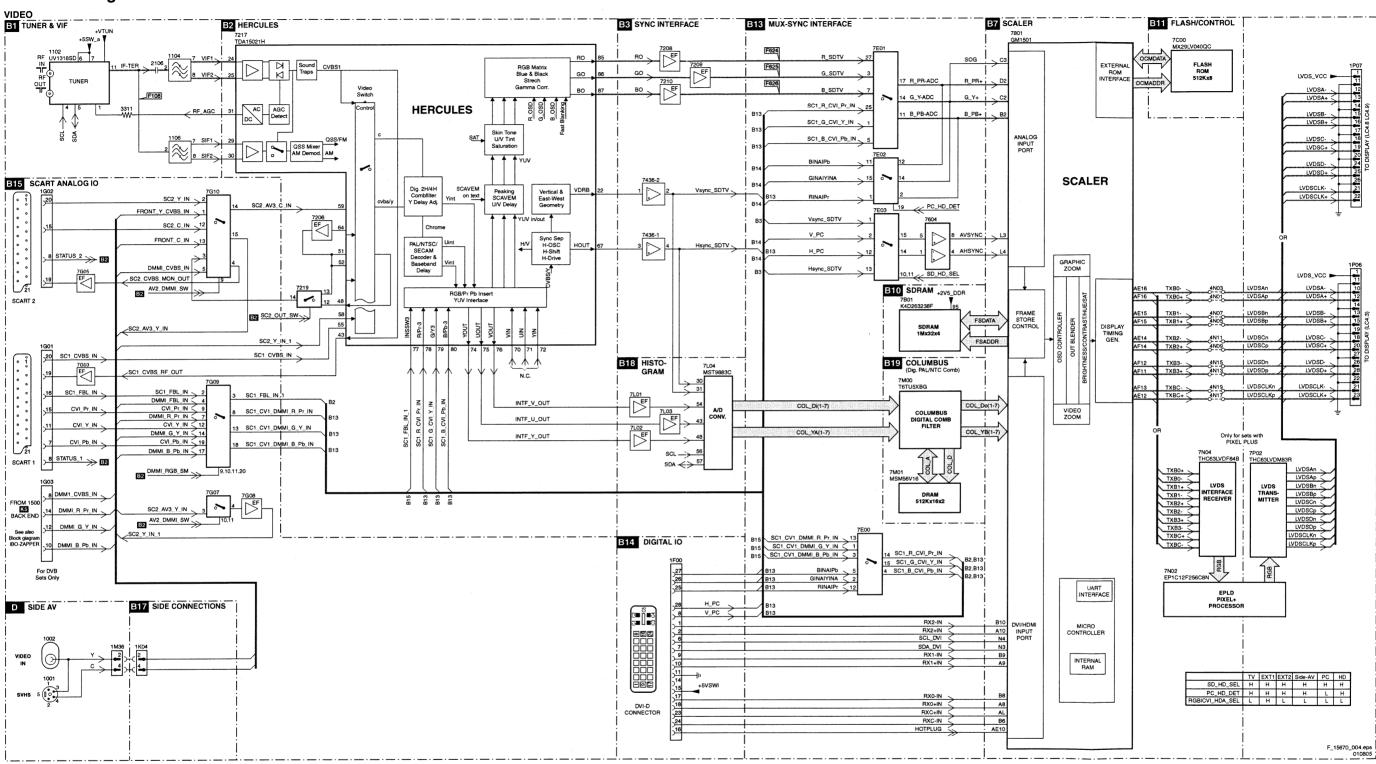
Wiring Diagram



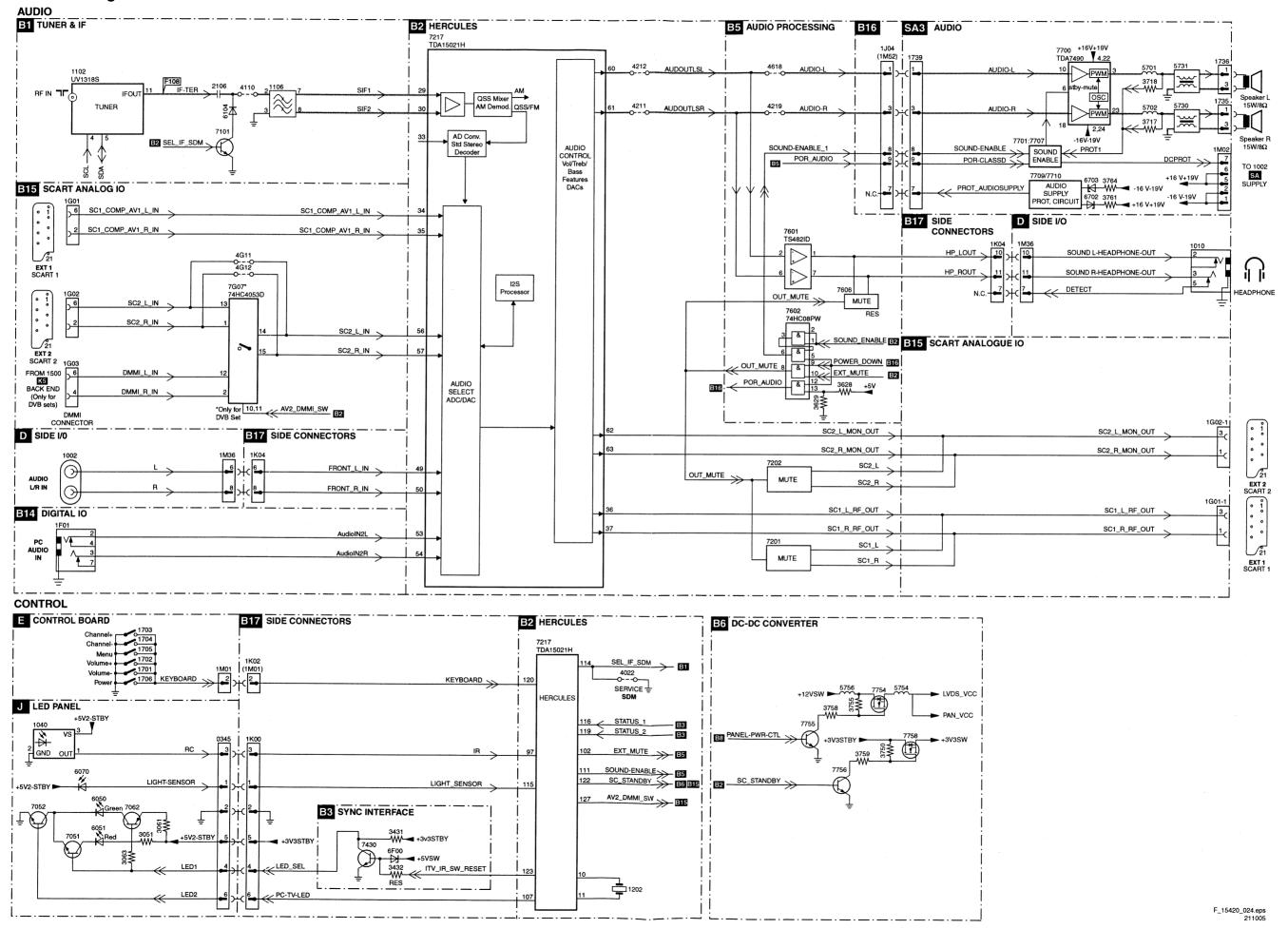
Block Diagram Supply

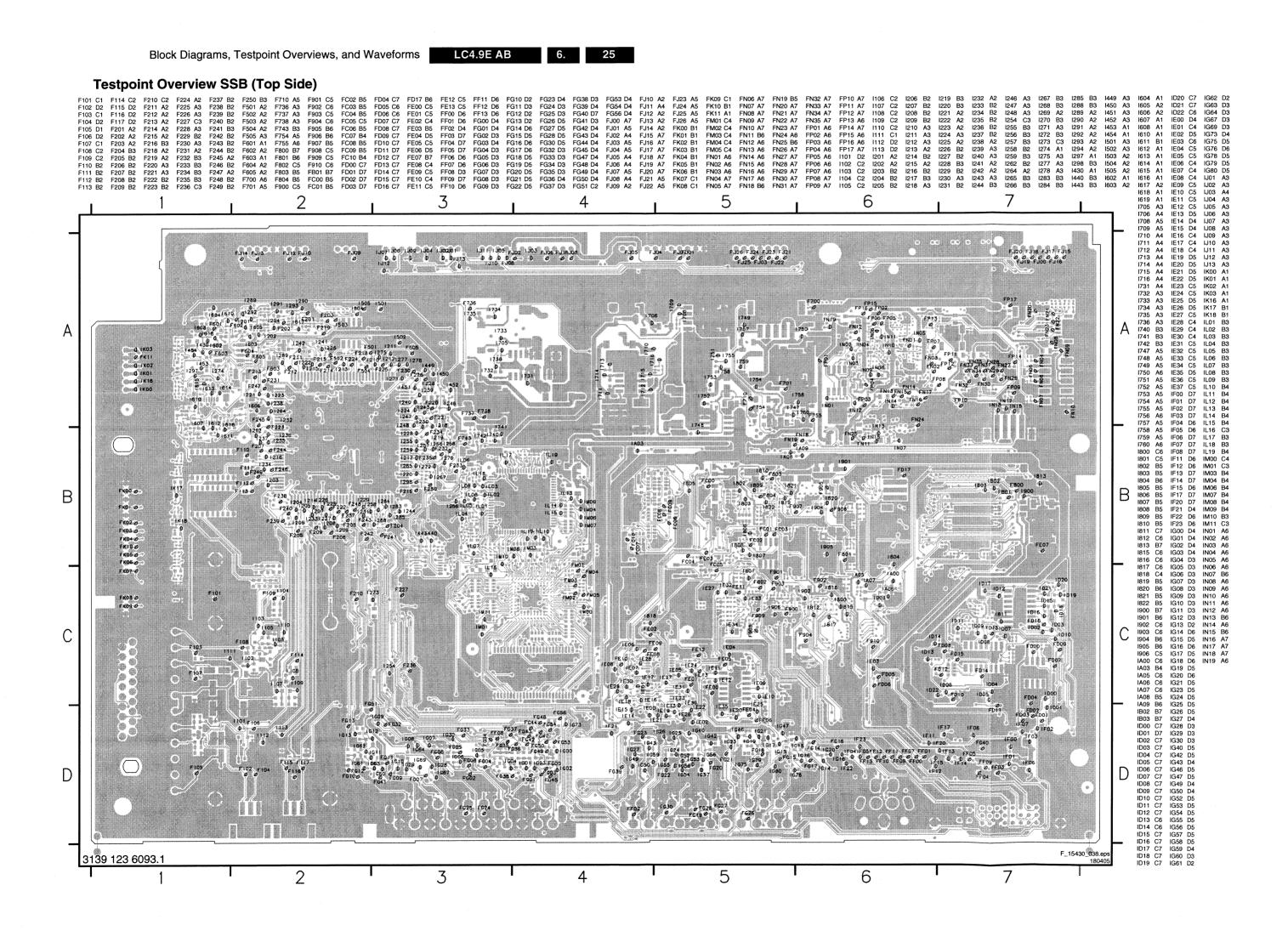


Block Diagram Video

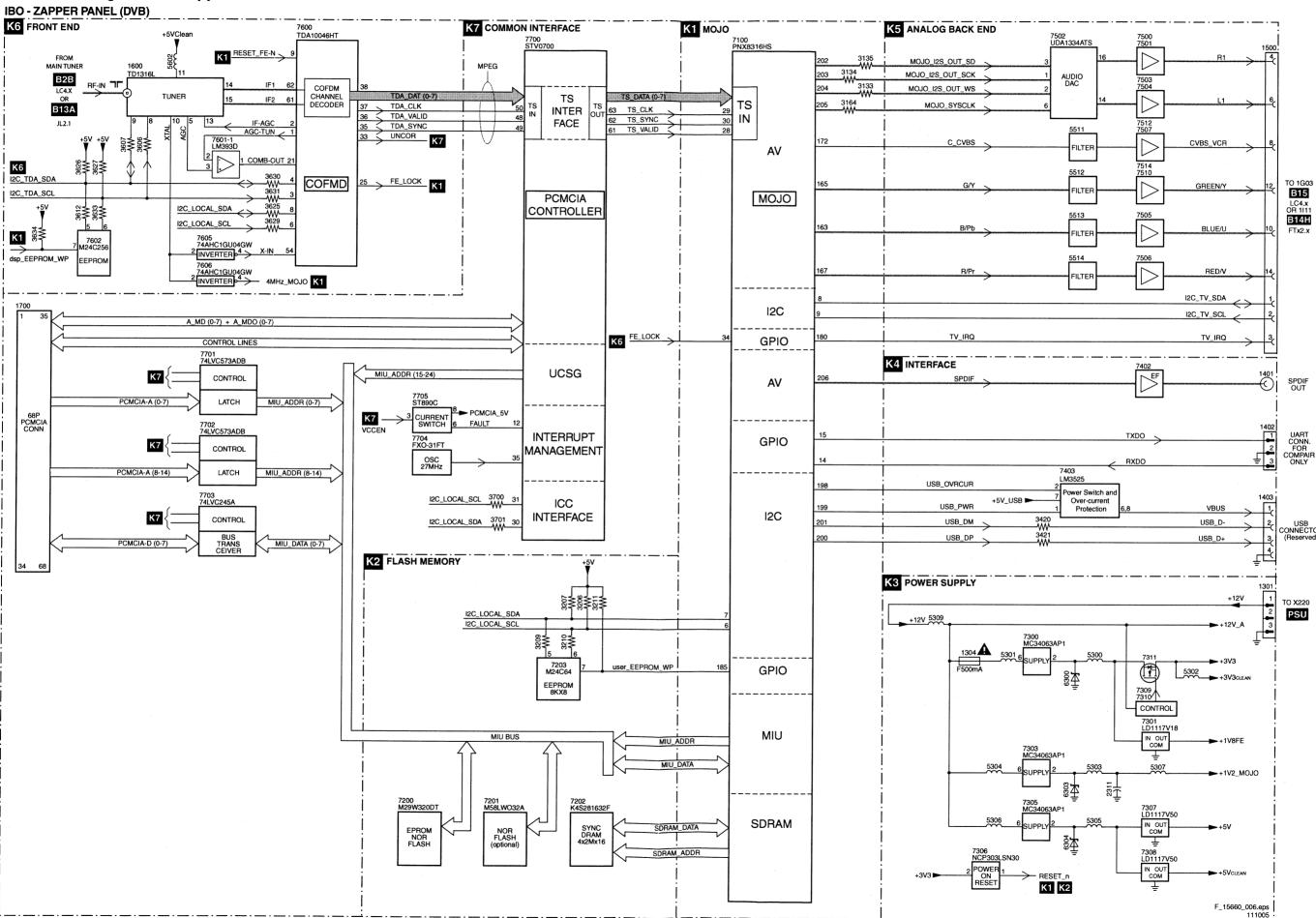


Block Diagram Audio

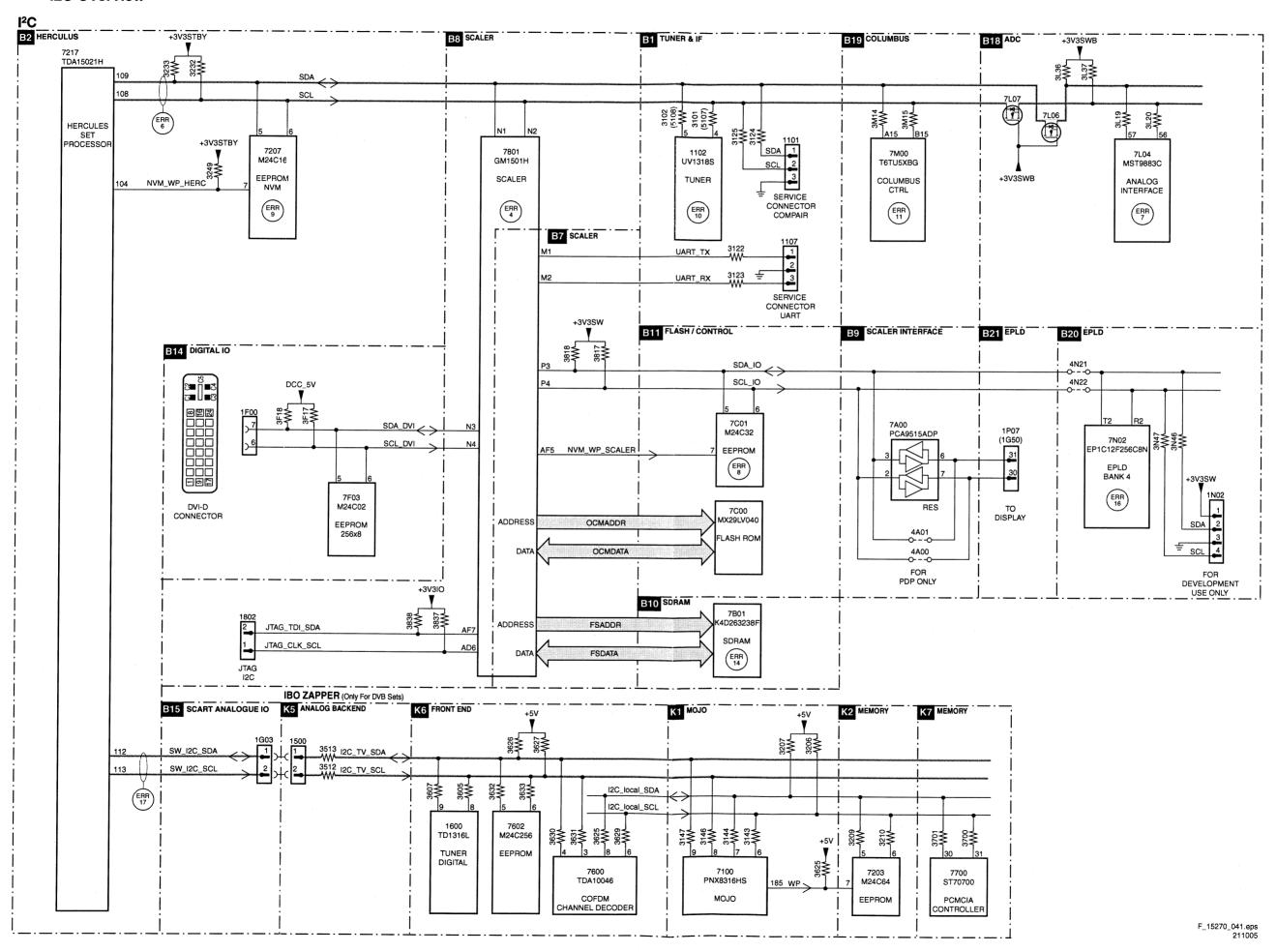


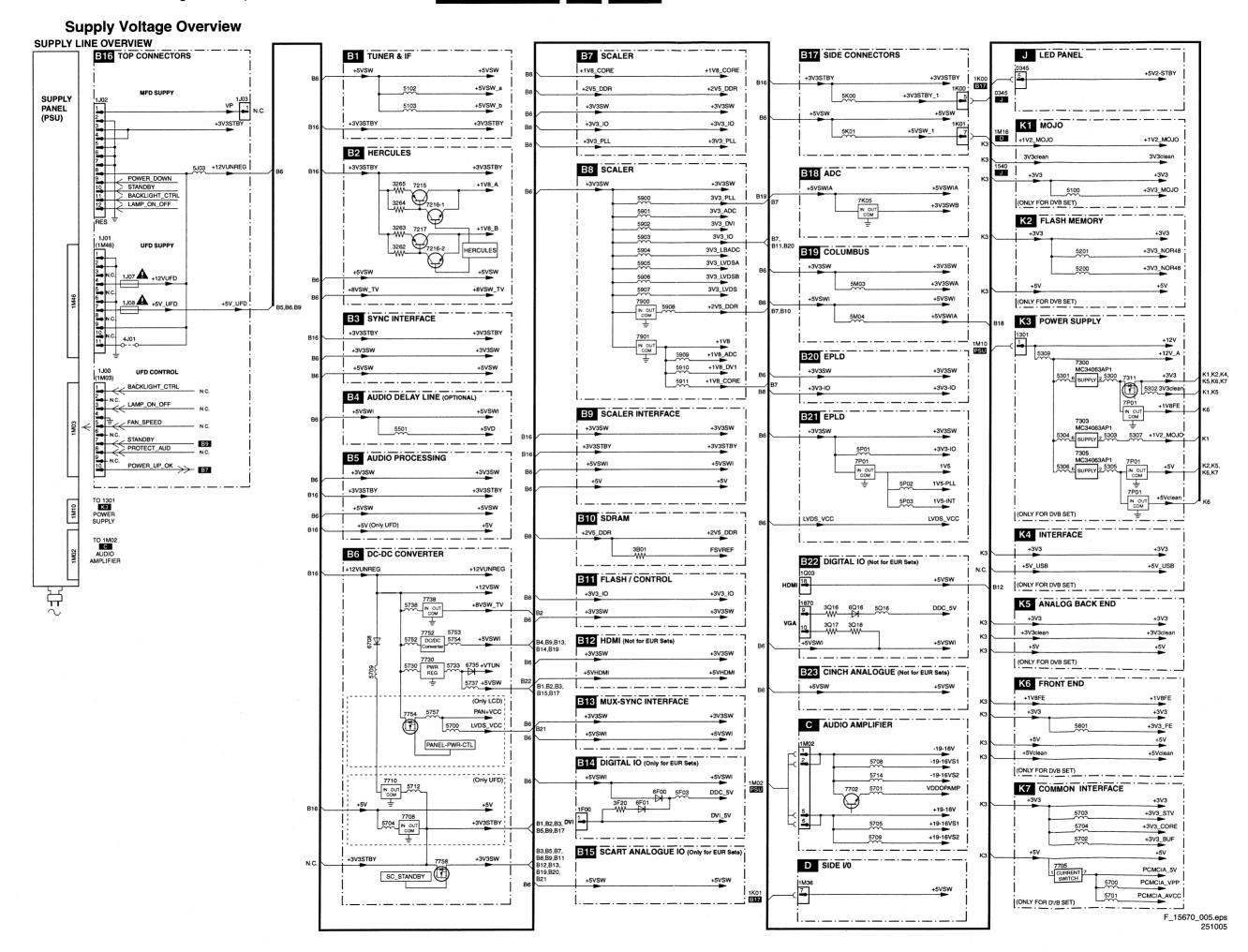


Block Diagram IBO Zapper

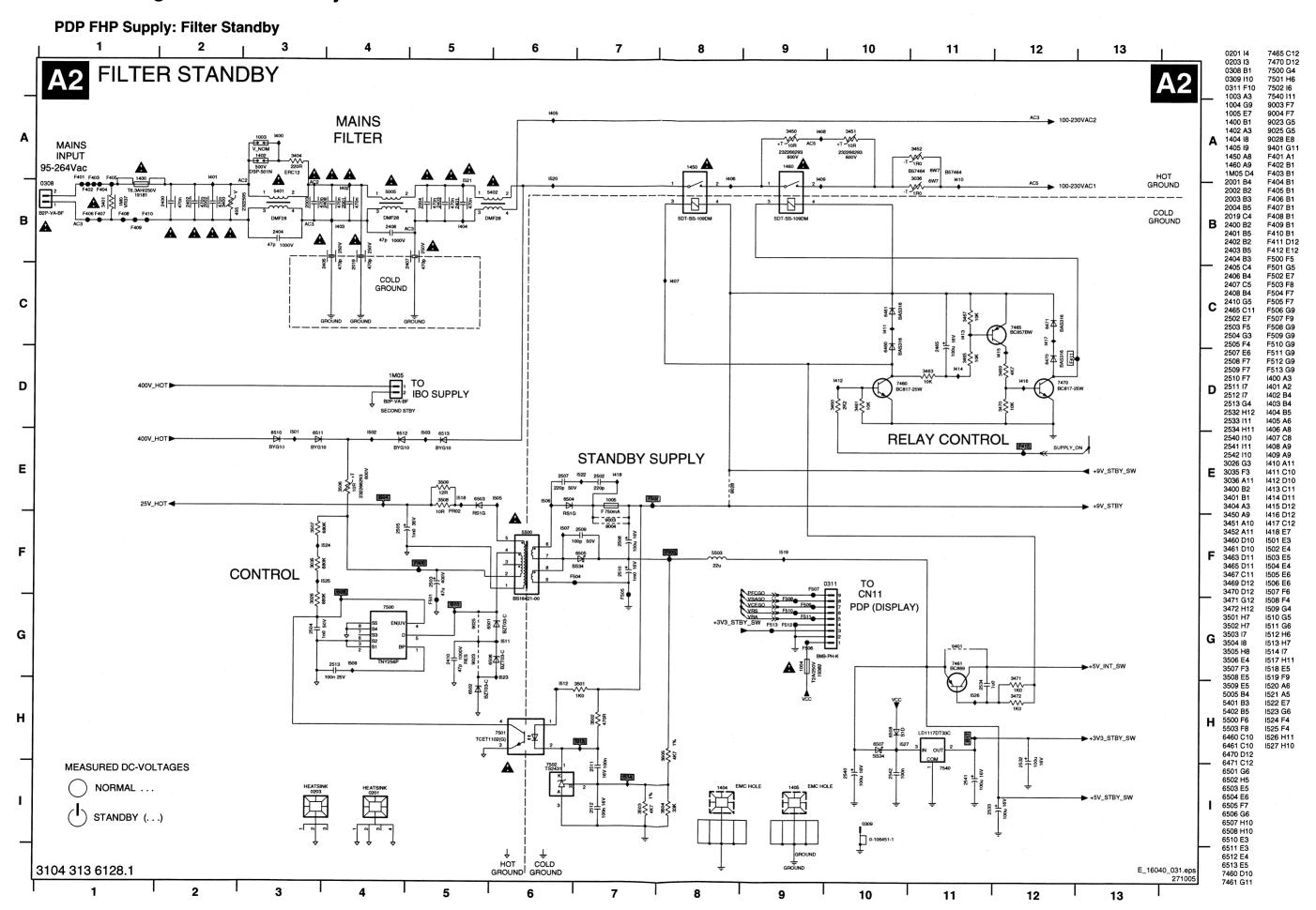


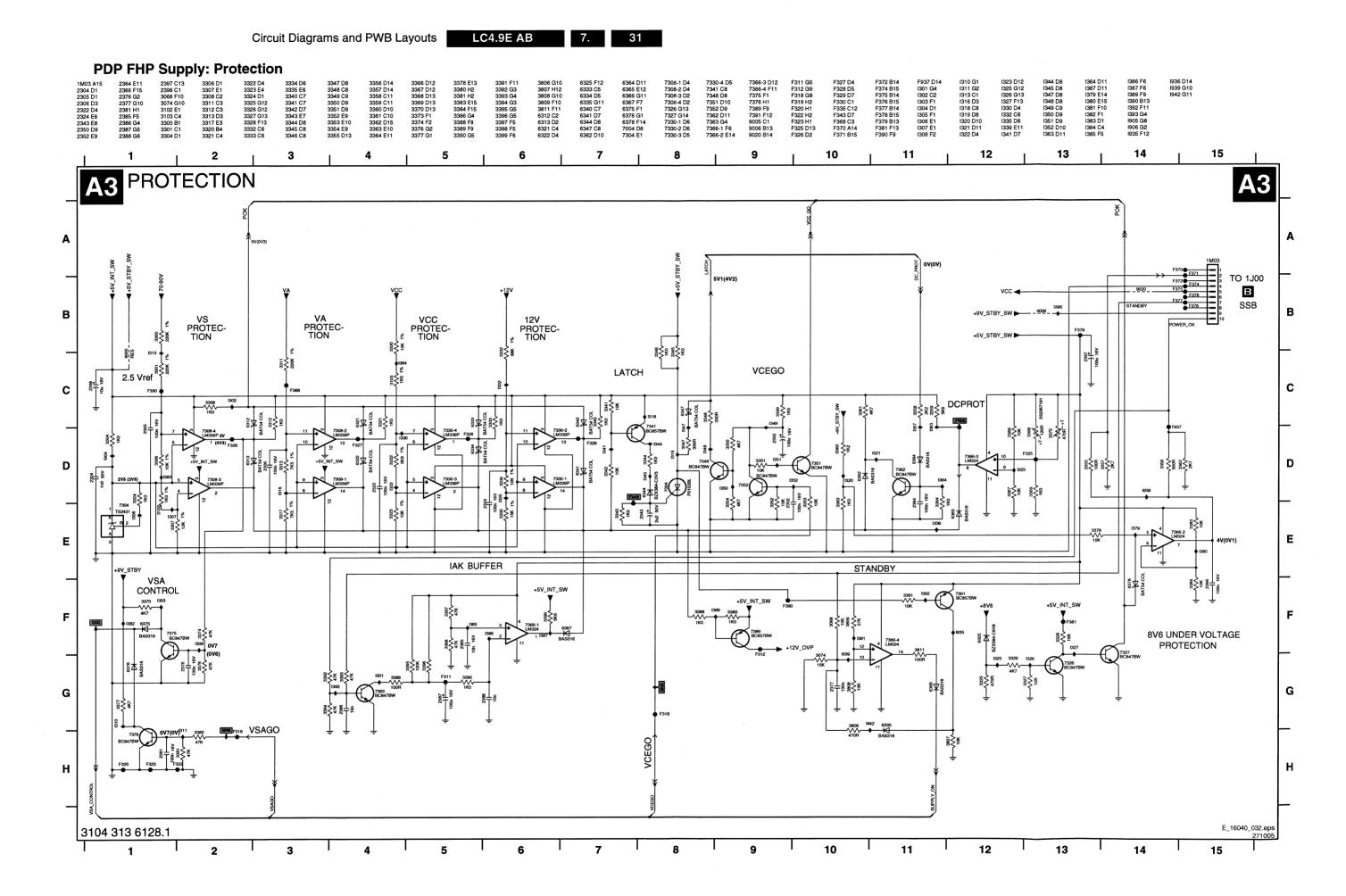
I2C Overview





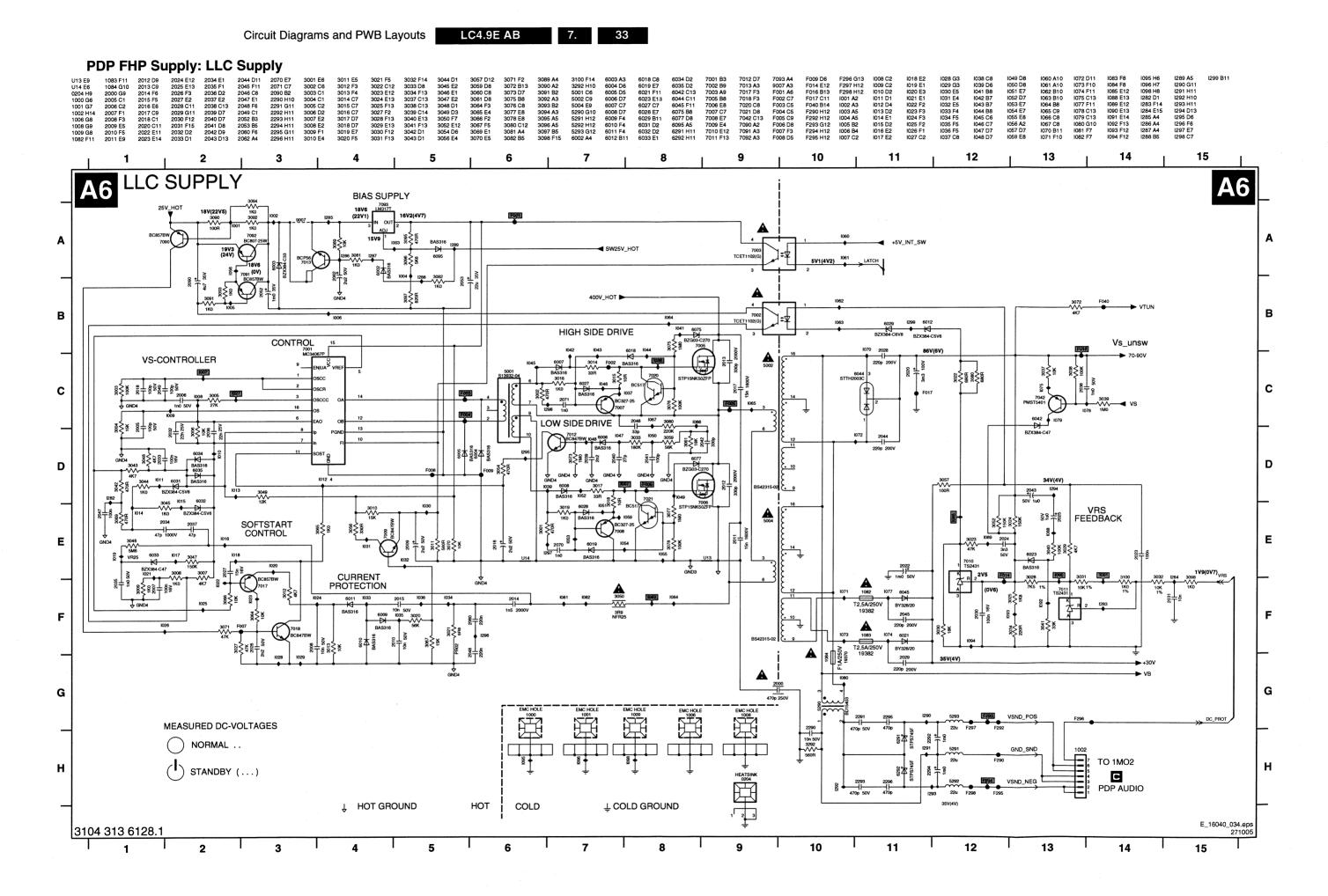
7. Circuit Diagrams and PWB Layouts





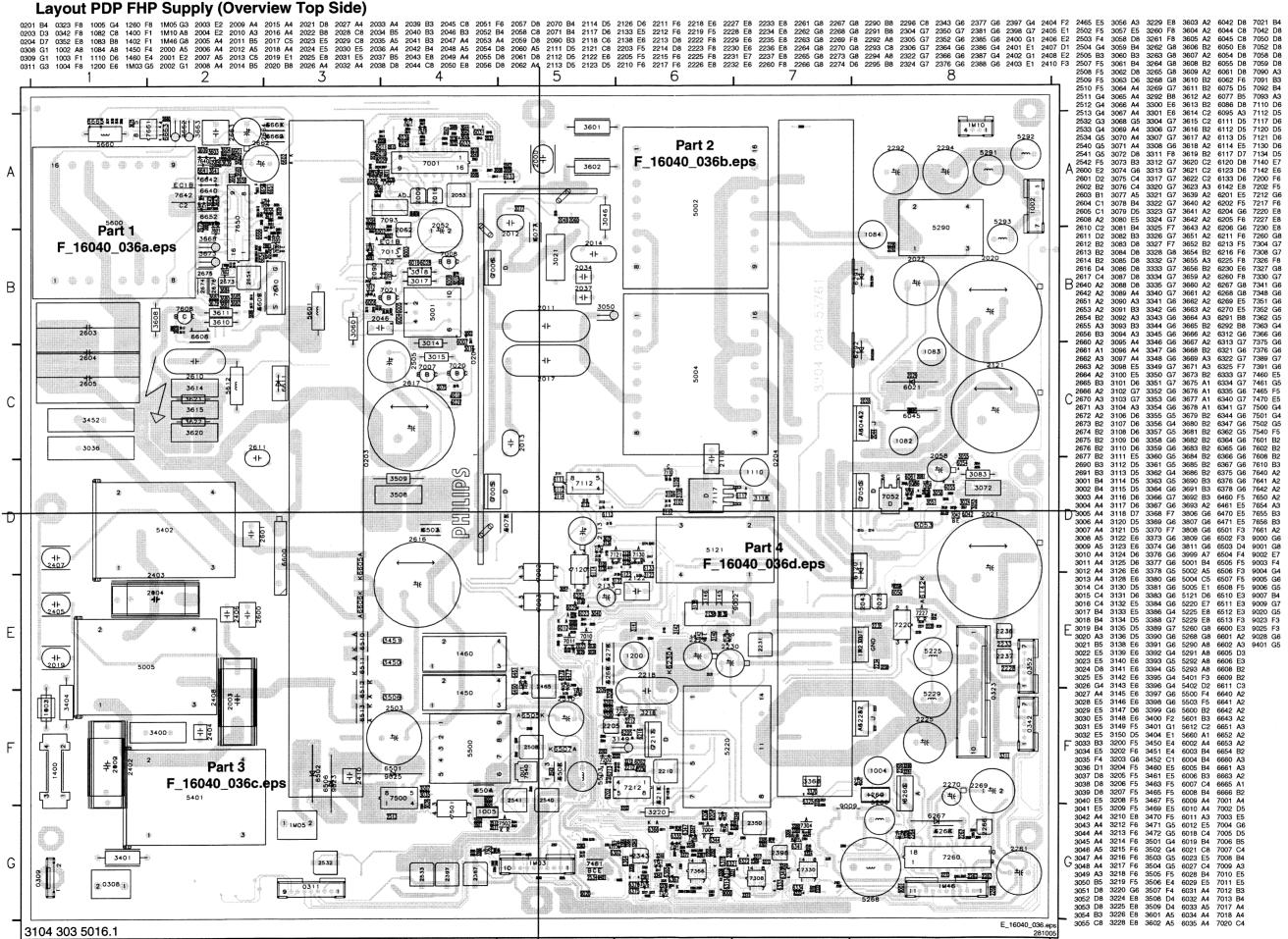
Circuit Diagrams and PWB Layouts

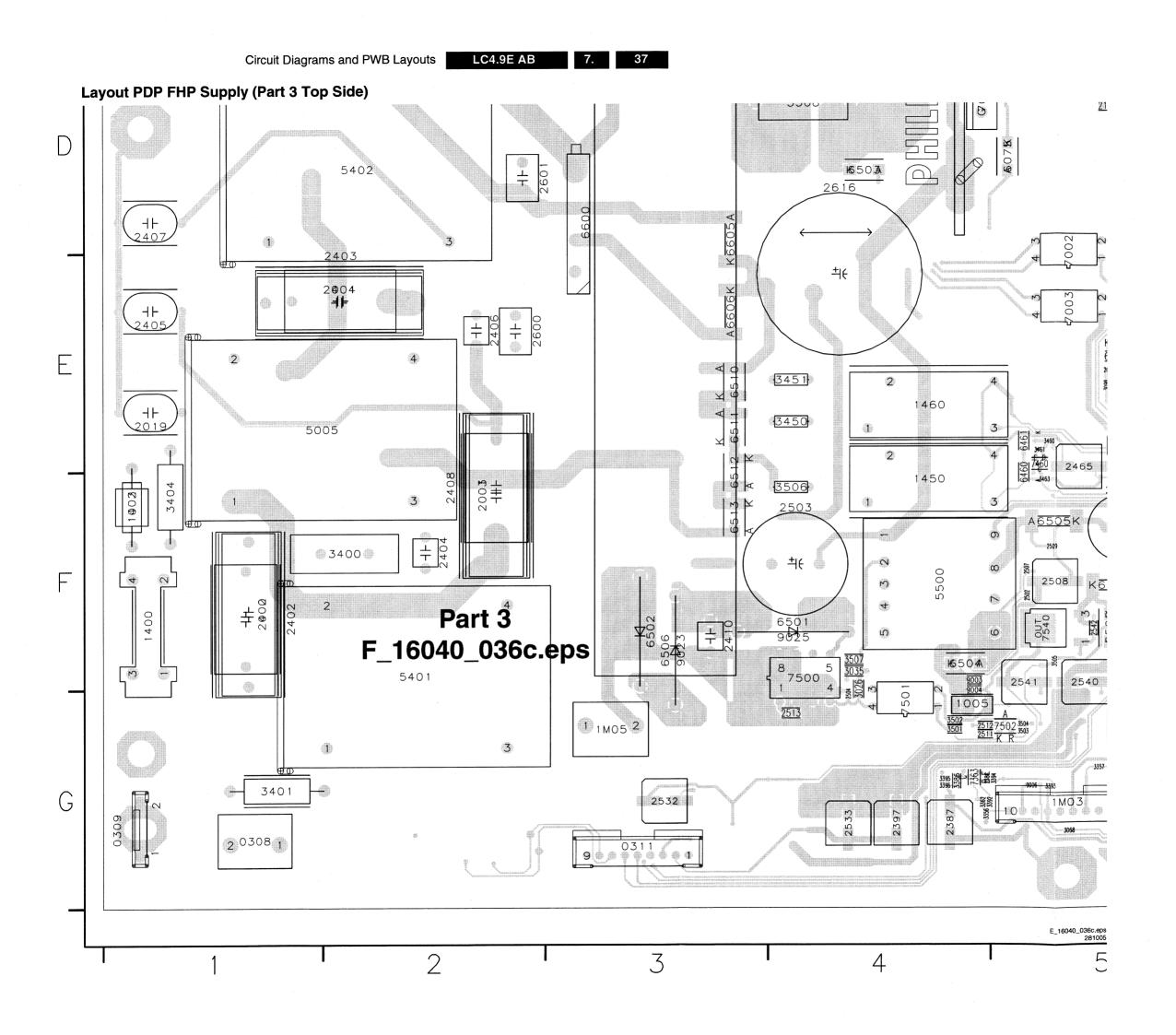
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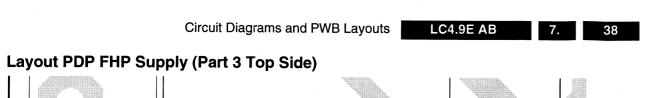


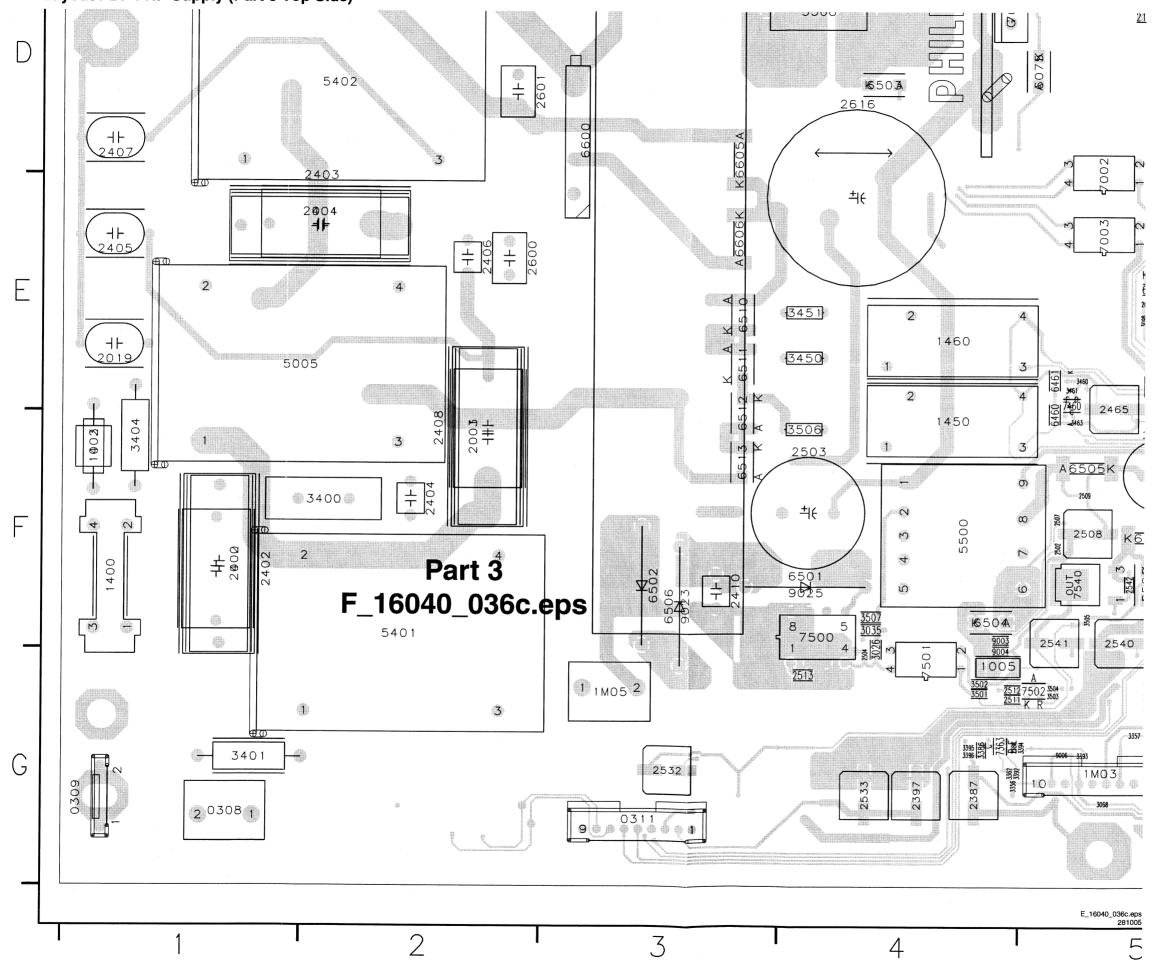
Circuit Diagrams and PWB Layouts

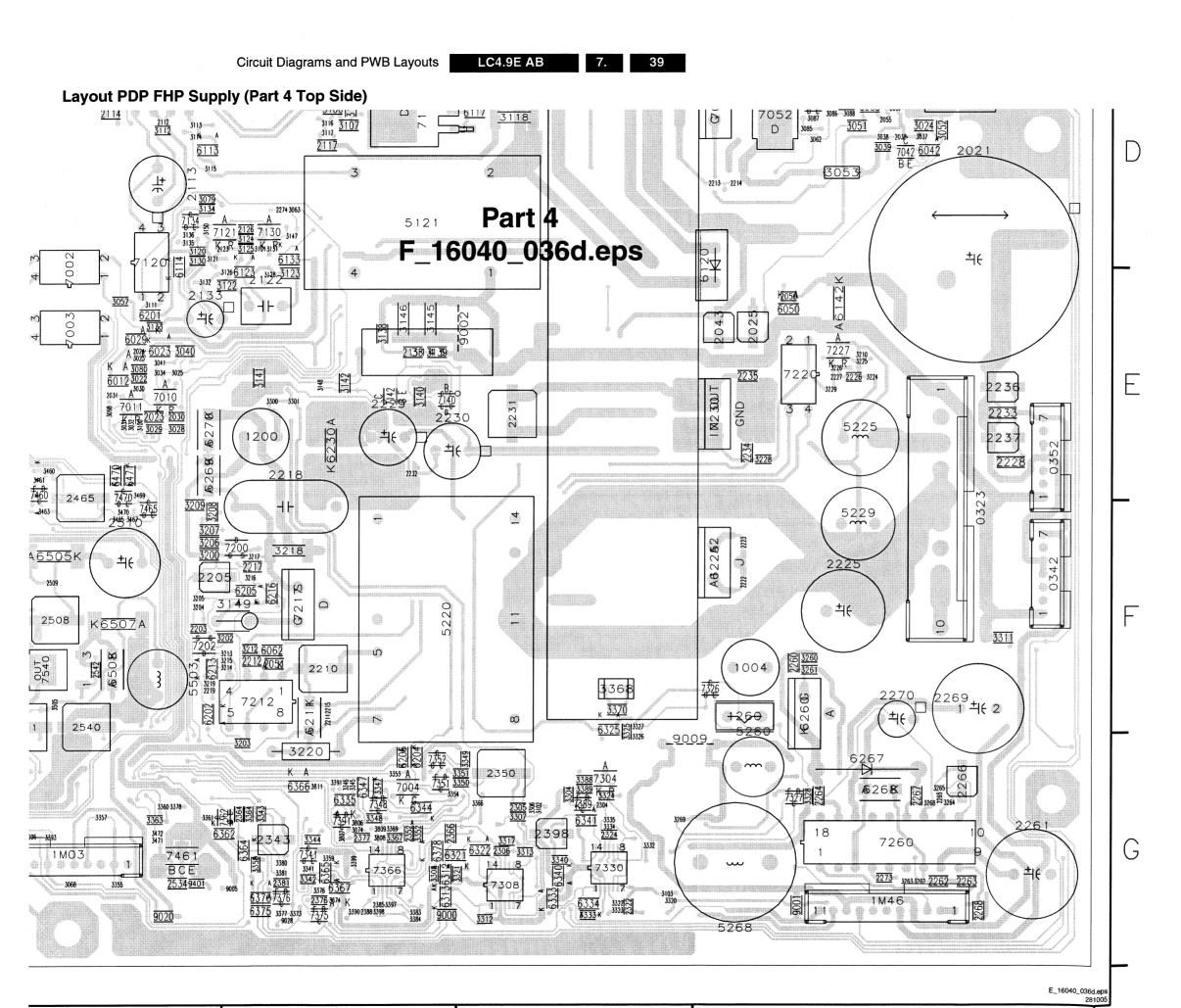
LC4.9E AB











8

5 6 7

5

7

___3139 123 6093.1

2

3

7103 F6 F101 B1

F102 C1

F104 C1 F105 C4

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10

9

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Circuit Diagrams and PWB Layouts

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SSB: Diversity Tables B1-B6

B1 TUNER & IF

| Item | AP - non China | Europe | NAFTA/LT | AP - DVB | Europe - DVB | China | Description |
|------|----------------|--------|----------|----------|--------------|-------|--------------------------------|
| 1102 | | | | | | ٧ | TUN V+U PLL IEC BGDKM B |
| 1102 | | ٧ | | | | | TUN V+U PLL IEC BGHIL B |
| 1102 | | | ٧ | | | | TUNER UV1338/A F S H-4 |
| 1102 | ٧ | | | | | | TUNER UV1316E/A I H-4 |
| 1102 | | | | ٧ | ٧ | | TUNER UV1318SD/A CP H N-4 |
| 1104 | | ٧ | | | ٧ | | FIL SAW SM 38MHZ9 OFWK3953L R |
| 1104 | | | | | | ٧ | FIL SAW SM 38MHZ OFWM3956L R |
| 1104 | | | ٧ | | | | FIL SAW SM 45MHZ75 OFWM1967L R |
| 1104 | ٧ | | | ٧ | | | FIL SAW SM 38MHZ9 OFWK7265L R |
| 1105 | | | | | | ٧ | FIL SAW SM 38MHZ OFWK3955L R |
| 1106 | | ٧ | | | ٧ | | FIL SAW SM 38MHZ9 OFWK9656L R |
| 1106 | | | | | | ٧ | FIL SAW SM 38MHZ OFWK9352L R |
| 1106 | ٧ | | | ٧ | | | FIL SAW SM 38MHZ9 OFWK9361L R |
| 3101 | ٧ | | ٧ | | | ٧ | RST SM 0603 100R PM5 COL |
| 3102 | ٧ | | ٧ | | | ٧ | RST SM 0603 100R PM5 COL |
| 3104 | | ٧ | | | ٧ | | RST SM 0603 10K PM5COL |
| 3104 | V | | ٧ | ٧ | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 3107 | ٧ | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 6K8 PM5 COL |
| 3108 | ٧ | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 2K2 PM5 COL |
| 3109 | V | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 2K2 PM5 COL |
| 3110 | | | | | | ٧ | RST SM 0603 2K2 PM5 COL |
| 3111 | V | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 22K PM5 COL |
| 3112 | V | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 18K PM5 COL |
| 3113 | | | | | | ٧ | RST SM 0603 22K PM5 COL |
| 3114 | | | | | | ٧ | RST SM 0603 47K PM5 COL |
| 4102 | v | ٧ | > | ٧ | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4103 | | | | | | ٧ | RST SM 0603 JUMP, 0R05 COL |
| 4104 | v | | | ٧ | | | RST SM 0603 JUMP. 0R05 COL |
| 4106 | | ٧ | ٧ | | ٧ | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4107 | | | | | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4108 | | | | | | ٧ | RST SM 0603 JUMP, 0R05 COL |
| 4110 | ٧ | ٧ | | ٧ | ٧ | ٧ | RST SM 0603 JUMP, 0R05 COL |
| 4111 | | ٧ | | | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4113 | v | | | ٧ | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 5101 | v | ٧ | | ٧ | ٧ | ٧ | FXDIND SM 0805 0U39 PM10 COL R |
| 5101 | | | ٧ | | | | FXDIND SM 0805 0U68 PM10 COL R |
| 5102 | v | ٧ | ٧ | v | | ٧ | FXDIND SM 0805 12U PM10 COL R |
| 5102 | | | | | v | | FXDIND SM 1008 6U8 PM5 COL R |
| 5107 | | | | ٧ | v | | FXDIND 0603 100MHZ 600R COL R |
| 5107 | | v | | | | | RST SM 0603 100R PM5 COL |
| 5108 | | | | ٧ | v | | FXDIND 0603 100MHZ 600R COL R |
| 5108 | | v | | | | | RST SM 0603 100R PM5 COL |
| 6103 | T | v | | | v | | DIO SIG SM BAS316 (COL) R |
| 6105 | | Ť | | | <u> </u> | ٧ | DIO SIG SM 1SS356 (RHM0) R |
| 7101 | v | v | | v | v | v | TRA SIG SM BC847BW (COL) R |
| 7102 | ١Ť | Ė | | <u> </u> | <u> </u> | v | TRA SIG SM BC847BW (COL) R |

B2 HERCULES

| | LC4.3A AB (DVB-T) | LC4.3E AB/LC4.8E AB/LC4.9E AB (DVB-T) | _C4.3U/L | LC4.3E/LC4.8E/LC4.9E | LC4.3E W/O 3D COMB FILTER | LC4.3A - CHINA | LC4.3A - AP (non-China) | |
|--------------|-------------------|---------------------------------------|----------|----------------------|---------------------------|----------------|-------------------------|---|
| Item | _ | | 7 | _ | _ | _ | | Description |
| 2203 | ٧ | ٧ | | ٧ | ٧ | V | v | ELCAP SM 16V 10U PM20 COL R |
| 2229 | | | ٧ | | | | | CER2 0805 X5R 6V3 10U PM10 R |
| 2244 | ٧ | ٧ | | V | V | _ | | CER2 0402 Y5V 16V 100N COL |
| 2245 | ٧ | ٧ | | ٧ | ٧ | <u> </u> | <u> </u> | CER2 0402 Y5V 16V 100N COL |
| 2246 | ٧ | ٧ | | ٧ | ٧ | L. | <u> </u> | CER2 0402 Y5V 16V 100N COL |
| 2255 | ٧ | ٧ | V | ٧ | | V | V | CER2 0402 Y5V 16V 100N COL |
| 2286 | ٧ | ٧ | ٧ | ٧ | - | ٧ | V | CER2 0402 Y5V 16V 100N COL |
| 2289 | ٧ | | | v | _ | - | - | CER2 0805 Y5V 10V 4U7 P8020 R RST SM 0603 150R PM5 COL |
| 2289 | v | v | | V | v | - | ├─ | RST SM 0603 150R PM5 COL CER2 0805 Y5V 10V 4U7 P8020 R |
| 2290 2291 | v | v v | - | V | · · | <u> </u> | | CER2 0402 Y5V 16V 100N COL |
| 2292 | • | v | - | ۲ | _ | - | ├ | CER2 0402 Y5V 16V 100N COL |
| 3250 | _ | v | - | ٧ | v | v | v | RST SM 0402 100R PM5 COL |
| 3251 | | v | | v | v | v | v | RST SM 0402 100R PM5 COL |
| 3252 | _ | v | - | v | v | v | v | RST SM 0402 100R PM5 COL |
| 3253 | | v | | v | v | v | v | RST SM 0402 100R PM5 COL |
| 3255 | | v | - | v | v | v | v | RST SM 0402 JUMP. 0R05 COL |
| 3256 | | v | | v | ٧ | v | v | RST SM 0402 JUMP. 0R05 COL |
| 3257 | | ٧ | | v | ν | v | V | RST SM 0402 JUMP. 0R05 COL |
| 3258 | | ٧ | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 1K PM5 COL |
| 3259 | | ٧ | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 1K PM5 COL |
| 3260 | | ٧ | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 1K PM5 COL |
| 3270 | | | | | | | | RST SM 0402 10K PM5 COL |
| 3282 | | ٧ | | | | | | RST SM 0603 150R PM5 COL |
| 3285 | ٧ | V | ٧ | ٧ | | ٧ | v | RST SM 0402 JUMP. 0R05 COL |
| 3286 | ٧ | ٧ | V | ٧ | | ٧ | V | RST SM 0402 100R PM5 COL |
| 3291 | ٧ | | | | | | | RST SM 0402 47K PM5 COL |
| 3292 | | ٧ | | ٧ | | | | RST SM 0402 12K PM5 COL |
| 3292 | ٧ | | | | | | | RST SM 0402 47K PM5 COL |
| 3293 | ٧ | | _ | <u> </u> | - | | <u> </u> | RST SM 0402 47K PM5 COL |
| 3294 | V | V | | V | ,, | \ | 7. | RST SM 0402 47K PM5 COL |
| 3295 | ۷ ۷ | V | _ | ٧ | ٧ | ٧ | ٧ | RST SM 0402 100K PM5 COL RST SM 0402 100R PM5 COL |
| 3296 | - | ٧_ | v | - | v | v | v | RST SM 0402 100R PM5 COL RST SM 0805 JUMP. 0R05 COL R |
| 4206 4213 | ٧ | ٧ | <u> </u> | | - | · | | RST SM 0402 JUMP. 0R05 COL |
| 4214 | v | v | - | <u> </u> | \vdash | | \vdash | RST SM 0402 JUMP, 0R05 COL |
| 4215 | v | v | | | | | | RST SM 0402 JUMP. 0R05 COL |
| 5218 | v | v | | v | | | | IND FXD 1206 EMI 100MHZ 120R R |
| 6206 | ٧ | v | | Ė | | | | DIO SIG SM BAT54 SOD323 COL R |
| 7208 | m | ٧ | | v | ٧ | ٧ | ٧ | TRA SIG SM BC847BW (COL) R |
| 7209 | | ٧ | | ٧ | ٧ | ٧ | v | TRA SIG SM BC847BW (COL) R |
| 7210 | \Box | ٧ | | ٧ | ٧ | ٧ | v | TRA SIG SM BC847BW (COL) R |
| 7217 | | | ٧ | | | ٧ | | IC SM TDA15011H/N1BD0 (PHSE) Y |
| 7217 | ٧ | ٧ | | v | v | | ٧ | IC SM TDA15021H/N1B91 (PHSE) Y |
| 7219 | v | ٧ | | v | | | | IC SM 74HC4053D (PHSE) R |

B3 SYNC INTERFACE

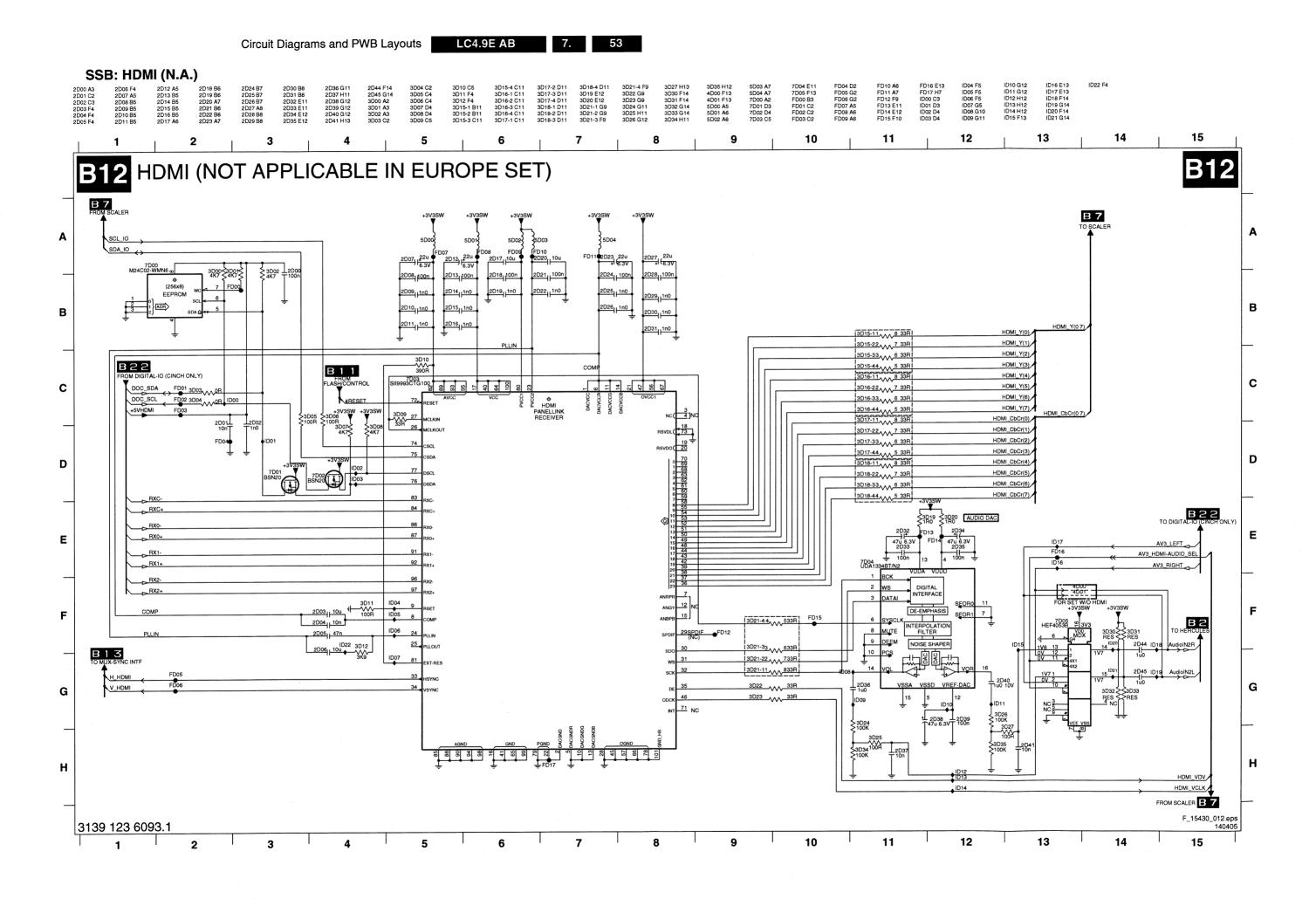
| Item | 26/32PFxxxx - AP/NAFTA/LT | EU & AP DVB sets | LC4.3E/LC4.9x/LC4.8x/LC4.3A-China | 26PF4310/10 | Description |
|------|---------------------------|------------------|-----------------------------------|-------------|------------------------------|
| 2449 | ٧ | ٧ | ٧ | | CER2 0402 Y5V 16V 100N COL |
| 3432 | | V | | | RST SM 0402 2K7 PM5 COL |
| 3458 | V | V | V | | RST SM 0402 100R PM5 COL |
| 3459 | V | ٧ | ٧ | | RST SM 0402 100R PM5 COL |
| 3461 | V | V | ٧ | | RST SM 0402 100R PM5 COL |
| 3462 | ٧ | ٧ | ٧ | | RST SM 0402 100R PM5 COL |
| 4436 | | | | V | RST SM 0402 JUMP. 0R05 COL |
| 4437 | | | | ٧ | RST SM 0402 JUMP. 0R05 COL |
| 4440 | ٧ | ٧ | ٧ | | RST SM 0402 JUMP. 0R05 COL |
| 4441 | ٧ | ٧ | ٧ | | RST SM 0402 JUMP, 0R05 COL |
| 6430 | ٧ | | ٧ | ٧ | DIO REG SM PDZ2.4B (PHSE) R |
| 6431 | ٧ | | ٧ | V | DIO SIG SM 1N4148WS (VISH) R |
| 7436 | v | v | v | 5 | IC SM 74LVC14APW (PHSE) R |

B5 AUDIO WITHOUT AMPLIFIER

| Item | 26/32PF | 7/42/50PF | Description |
|------|---------|-----------|------------------------------|
| 2612 | -,4 | v | CER2 0603 Y5V 10V 1U COL |
| 2613 | v | i - | CER2 0603 Y5V 10V 1U COL |
| 2616 | v | | CER2 0603 X5R 6V3 2U2 PM10 R |
| 2617 | v | - | CER2 0603 X5R 6V3 2U2 PM10 R |
| 3615 | v | | RST SM 0402 10K PM5 COL |
| 3616 | | v | RST SM 0402 1K PM5 COL |
| 3617 | | v | RST SM 0402 1K PM5 COL |
| 3618 | v | | RST SM 0402 22K PM5 COL |
| 3619 | | v | RST SM 0402 10K PM5 COL |
| 3620 | | v | RST SM 0402 10K PM5 COL |
| 3623 | v | | RST SM 0402 47K PM5 COL |
| 3625 | v | | RST SM 0402 3K3 PM5 COL |
| 3627 | v | | RST SM 0402 22K PM5 COL |
| 3628 | | v | RST SM 0402 10K PM5 COL |
| 3629 | | v | RST SM 0402 22K PM5 COL |
| 3630 | v | | RST SM 0402 330R PM5 COL |
| 3630 | | v | RST SM 0402 470R PM5 COL |
| 3631 | ٧ | | RST SM 0402 330R PM5 COL |
| 3631 | | ٧ | RST SM 0402 470R PM5 COL |
| 3632 | | ٧ | RST SM 0402 RC31 39R PM5 R |
| 3633 | | ٧ | RST SM 0402 RC31 39R PM5 R |
| 4601 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4602 | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4603 | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4606 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4609 | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4610 | > | | RST SM 0603 JUMP. 0R05 COL |
| 4611 | > | | RST SM 0603 JUMP. 0R05 COL |
| 4612 | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4613 | > | | RST SM 0603 JUMP. 0R05 COL |
| 4614 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4615 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4616 | ٧ | | RST SM 0603 JUMP, 0R05 COL |
| 4617 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4618 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4619 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4620 | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4621 | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 7603 | | ٧ | TRA SIG SM BC847BW (COL) R |
| 7604 | | ٧ | TRA SIG SM BC847BW (COL) R |
| 7607 | V | | TRA SIG SM BC847BW (COL) R |

B6 DC DC CONVERTER

| Item | 26/32PF LCD | 37/42PF LCD | 42/50PF PDP | DVB PDP 42PF | DVB LCD 37PF | Description |
|------|-------------|-------------|-------------|--------------|--------------|--------------------------------|
| 2701 | < | ٧ | | | ٧ | CER1 0402 NP0 50V 100P COL |
| 2706 | | ٧ | ٧ | ٧ | ٧ | ELCAP SM 16V 10U PM20 COL R |
| 2709 | | ٧ | ٧ | ٧ | ٧ | ELCAP SM 16V 47U PM20 COL R |
| 2710 | | ٧ | ٧ | ٧ | ٧ | CER2 1210 Y5V 25V 10U P8020 R |
| 2711 | | ٧ | ٧ | ٧ | ٧ | CER2 1210 Y5V 25V 10U P8020 R |
| 2713 | | ٧ | ٧ | ٧ | V | ELCAP SM SEV 16V 470U PM20 R |
| 2714 | | ٧ | ٧ | ٧ | V | CER2 0402 X7R 50V 220P COL |
| 2715 | | ٧ | ٧ | ٧ | ٧ | CER2 0402 X7R 16V 22N PM10 R |
| 2741 | | ٧ | ٧ | ٧ | ν | CER2 0603 X7R 10V 220N COL |
| 2751 | V | ٧ | | | V | CER2 0402 Y5V 16V 100N COL |
| 2752 | V | ٧ | | | V | ELCAP SM 16V 47U PM20 COL R |
| 2760 | V | ٧ | | | ٧ | CER2 1206 X7R 25V 1U PM10 R |
| 2761 | | ٧ | ٧ | ٧ | V | CER2 1206 X7R 25V 1U PM10 R |
| 3708 | | > | ٧ | ٧ | ٧ | RST SM 0402 10K PM5 COL |
| 3709 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 6K8 PM5 COL |
| 3712 | | ٧ | ٧ | ٧ | ٧ | RST SM 0603 RC22H 5K6 PM1 R |
| 3713 | | ٧ | ٧ | ٧ | V | RST SM 0603 RC22H 3K3 PM1 R |
| 3716 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 4K7 PM5 COL |
| 3740 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 1K5 PM5 COL |
| 3741 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 1K5 PM5 COL |
| 3742 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 15K PM5 COL |
| 3743 | | ν | ٧ | ٧ | ٧ | RST SM 0402 22K PM5 COL |
| 3755 | ٧ | ٧ | | | ٧ | RST SM 0402 10K PM5 COL |
| 3758 | ٧ | ٧ | | | ٧ | RST SM 0402 15K PM5 COL |
| 3760 | ٧ | ٧ | | | ٧ | RST SM 0402 100R PM5 COL |
| 3761 | | ٧ | ٧ | ٧ | ٧ | RST SM 0402 100R PM5 COL |
| 5700 | ٧ | ٧ | | | ٧ | IND FXD 1206 EMI 100MHZ 120R R |
| 5704 | | ٧ | ٧ | ٧ | ٧ | IND FXD SM 1206 10U PM20 R |
| 5709 | | ٧ | ٧ | ٧ | ٧ | IND FXD SM 7032 10U PM20 R |
| 5712 | | ٧ | ٧ | ٧ | ٧ | IND FXD SM 12565 33U PM20 R |
| 5713 | | ٧ | ٧ | ٧ | ٧ | INDFXD SM 10145 10U PM20 R |
| 5756 | ٧ | ٧ | | | ٧ | IND FXD 1206 EMI 100MHZ 120R R |
| 5757 | ٧ | ٧ | | | ٧ | IND FXD 1206 EMI 100MHZ 120R R |
| 6708 | | ٧ | ٧ | ٧ | ٧ | DIO REC SS24 COL R |
| 6709 | | ٧ | ٧ | ٧ | ٧ | DIO REC SS14 COL R |
| 6712 | | ٧ | ٧ | ٧ | ٧ | DIO REC SS36 COL R |
| 6740 | | ٧ | ٧ | ٧ | ٧ | DIO REG SM PDZ8.2B (PHSE) R |
| 7708 | | ٧ | ٧ | ٧ | ٧ | IC SM LF33CPT (ST00) R |
| 7710 | | ٧ | ٧ | ٧ | ٧ | IC SM E-L5973D (ST00) R |
| 7741 | | ٧ | ٧ | > | ٧ | TRA SIG SM BC847BW (COL) R |
| 7742 | | ٧ | V | ٧ | > | TRA SIG SM BC847BW (COL) R |
| 7754 | ٧ | ٧ | | | ٧ | FET POW SM SI2301BDS-E3(VISH)R |
| 7755 | ٧ | ٧ | | | ٧ | TRA SIG SM PDTC114ET (COL) R |



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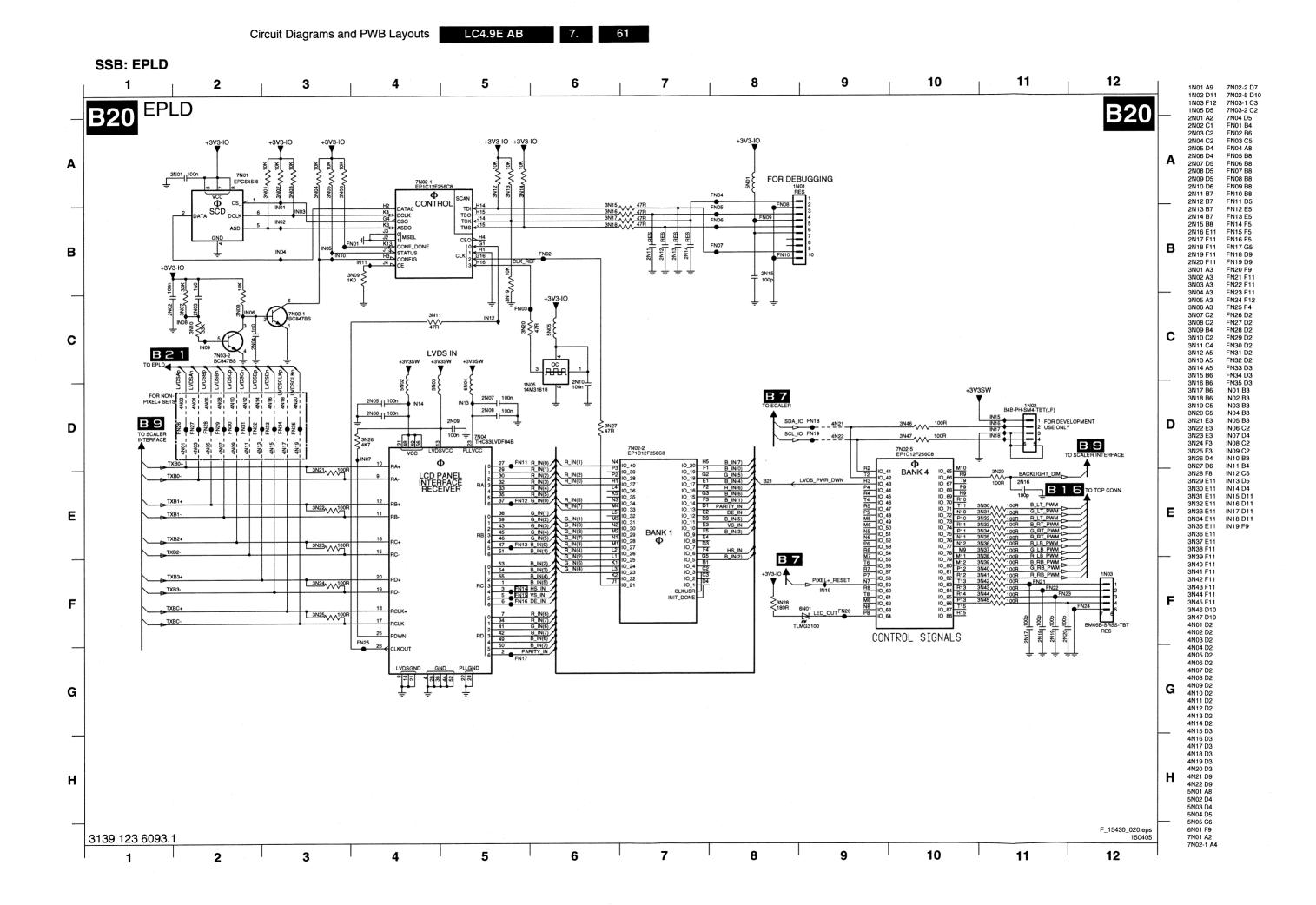
10

3139 123 6093.1

F_15430_013.eps 140405

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LC4.9E AB



LC4.9E AB 7.

SSB: Diversity Tables B9-B21

B9 MUX-SYNC INTERFACE

| Item | LC4.3x | LC4.8x | LC4.9x | Description |
|------|--------|--------|--------|------------------------------|
| 2A00 | | | v | CER2 0603 X7R 16V 100N COL |
| 2A01 | | | v | CER1 0402 NP0 50V 100P COL |
| 2A02 | | | v | CER1 0402 NP0 50V 100P COL |
| 2A03 | | v | | CER2 0603 Y5V 10V 1U COL |
| 2A12 | | v | ٧ | CER2 0402 X7R 16V 10N COL |
| 2A13 | | v | V | CER2 0402 Y5V 16V 100N COL |
| 3A00 | | | v | RST SM 0402 68R PM5 COL |
| 3A01 | | | ٧ | RST SM 0402 68R PM5 COL |
| 3A02 | ٧ | v | | RST SM 0402 1K PM5 COL |
| 3A06 | | V | | RST SM 0603 10K PM5COL |
| 3A06 | ٧ | | | RST SM 0603 JUMP, 0R05 COL |
| 3A07 | | | V | RST SM 0402 10K PM5 COL |
| 3A07 | | | | RST SM 0402 68R PM5 COL |
| 3A08 | | | ٧ | RST SM 0402 10K PM5 COL |
| 3A10 | | V | V | RST SM 0402 10K PM5 COL |
| 3A11 | | V | V | RST SM 0402 10K PM5 COL |
| 3A13 | | V | V | RST SM 0402 10K PM5 COL |
| 3A14 | | V | ٧ | RST SM 0402 560R PM5 COL |
| 4A03 | ٧ | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4A04 | | П | ٧ | RST SM 0402 JUMP. 0R05 COL |
| 4A05 | ٧ | Г | | RST SM 0402 JUMP. 0R05 COL |
| 4A06 | V | | | RST SM 0402 JUMP, 0R05 COL |
| 5A00 | | | ٧ | FXDIND 0805 100MHZ 30R COL R |
| 6A01 | | V | ٧ | DIO REG SM BZX384-C3V9 COL R |
| 7A00 | | | ٧ | IC SM PCA9515ADP (PHSE) R |
| 7A02 | | ٧ | ٧ | TRA SIG SM BC847BW (COL) R |
| 7A03 | | V | V | TRA SIG SM BC847BW (COL) R |

B13 MUX-SYNC INTERFACE

| EM | AP/EU/AP-DVB (with Teletext) | EU-DVB (with Teletext) | NAFTA/LT & China (non-Teletext) | DESCRIPTION |
|----|------------------------------|------------------------|---------------------------------|------------------------------|
| 00 | ٧ | | ٧ | CER2 0603 X5R 6V3 4U7 PM10 R |
| 01 | ٧ | | v | CER2 0603 X5R 6V3 4U7 PM10 R |
| 02 | ٧ | | ٧ | CER2 0603 X5R 6V3 4U7 PM10 R |
| 04 | ٧ | ٧ | | CER2 0402 X5R 6V3 1U PM20 R |
| 05 | v | ٧ | | CER2 0402 X5R 6V3 1U PM20 R |
| 06 | ٧ | ٧ | | CER2 0402 X5R 6V3 1U PM20 R |
| 06 | ٧ | | ٧ | RST SM 0402 47K PM5 COL |
| 07 | ٧ | | ٧ | RST SM 0402 47K PM5 COL |
| 08 | ٧ | | ٧ | RST SM 0402 47K PM5 COL |
| 13 | ٧ | ٧ | | RST SM 0402 330R PM5 COL |
| 14 | ٧ | ٧ | | RST SM 0402 330R PM5 COL |
| 15 | ٧ | ٧ | | RST SM 0402 330R PM5 COL |
| 16 | ٧ | ٧ | | RST SM 0402 330R PM5 COL |
| 17 | ٧ | ٧ | | RST SM 0402 330R PM5 COL |
| 18 | v | v | | RST SM 0402 330R PM5 COL |

B15 ANALOG I/O SCART

| DIO A | | | , . | | |
|--------------|--|---------------|----------|---------------|--|
| | | DVB.T 26/32PF | | DVB.T 37/42PF | |
| | 2PF | .T 26 | 2PF | T 37 | |
| Item | 26/32PF | DVB | 37/42PF | DVB | Description |
| 1G01 | ν | ٧ | | | SOC EURO H 21P F BK R-GRND B |
| 1G01 | _ | | ٧ | V | SOC EURO H 21P F SHD R-GRND Y |
| 1G02 | ٧ | ٧ | l | | SOC EURO H 21P F BK R-GRND B |
| 1G02 | \vdash | v | V | V | SOC EURO H 21P F SHD R-GRND Y CON H 32P F 0.50 SM FPC 0.3 R |
| 1G03 2G29 | \vdash | v | \vdash | Ť | ELCAP SM 16V 10U PM20 COL R |
| 2G30 | | v | | v | CER2 0603 X7R 16V 100N COL |
| 2G31 | | ٧ | | ٧ | CER2 0603 X7R 16V 100N COL |
| 2G32 | | | | ٧ | CER2 0603 Y5V 25V 100N COL |
| 2G33 | | ٧ | | v | CER2 0603 Y5V 16V 220N COL |
| 2G34 | | ٧ | \vdash | V | ELCAP SM 16V 10U PM20 COL R |
| 2G35 | <u> </u> | V | - | V | CER2 0603 Y5V 25V 100N COL CER2 0603 Y5V 10V 1U COL |
| 2G36 2G37 | - | v | | Ť | RST SM 0603 330R PM5 COL |
| 2G38 | | v | | v | CER2 0603 Y5V 10V 1U COL |
| 2G39 | | ٧ | | v | CER2 0603 Y5V 10V 1U COL |
| 2G40 | | ٧ | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 2G41 | | ٧ | | v | RST SM 0603 330R PM5 COL |
| 2G43 | _ | ٧ | _ | V | CER2 0603 X7R 50V 1N COL |
| 2G45 | _ | V | _ | V | CER2 0603 X7R 50V 1N COL |
| 2G46 2G63 | - | v | - | V | CER2 0603 X7R 50V 1N COL |
| 2G63 2G64 | | v | \vdash | v | CER2 0603 X5R 6V3 2U2 PM10 R CER2 0603 X5R 6V3 2U2 PM10 R |
| 2G65 | | v | | v | CER2 0603 X5R 6V3 4U7 PM10 R |
| 2G65 | | ٧ | | v | CER2 0603 X5R 6V3 4U7 PM10 R |
| 2G66 | | ٧ | | ٧ | CER2 0603 X5R 6V3 4U7 PM10 R |
| 2G66 | | ٧ | | ٧ | CER2 0603 X5R 6V3 4U7 PM10 R |
| 3G63 | _ | ٧ | | ٧ | RST SM 0603 10K PM5COL |
| 3G64 | <u> </u> | ٧ | _ | v | RST SM 0603 10K PM5COL |
| 3G65 | \vdash | ٧ | \vdash | V. | RST SM 0603 10K PM5COL RST SM 0603 150R PM5 COL |
| 3G66 3G67 | - | v | - | V | RST SM 0603 150K PM5 COL |
| 3G68 | \vdash | v | \vdash | Ť | RST SM 0603 15K PM5 COL |
| 3G69 | | ٧ | | v | RST SM 0603 47K PM5 COL |
| 3G70 | | ٧ | | ٧ | RST SM 0603 47K PM5 COL |
| 3G71 | | ٧ | | ٧ | RST SM 0603 560R PM5 COL |
| 3G72 | _ | ٧ | _ | V | RST SM 0603 10K PM5COL |
| 3G73 | H | V | \vdash | V | RST SM 0603 47K PM5 COL |
| 3G75 3G76 | \vdash | V | \vdash | V | RST SM 0603 100R PM5 COL RST SM 0603 100R PM5 COL |
| 3G76 3G77 | | v | _ | v | RST SM 0603 100K PM3 COL |
| 3G79 | | v | | v | RST SM 0603 47K PM5 COL |
| 3G81 | | ٧ | | ٧ | RST SM 0603 47K PM5 COL |
| 3G83 | | ٧ | | ٧ | RST SM 0603 100R PM5 COL |
| 3G84 | | ٧ | | ٧ | RST SM 0603 100R PM5 COL |
| 3G86 | | V | \vdash | V | RST SM 0603 47K PM5 COL |
| 3G88 | H | v | - | v | RST SM 0603 75R PM5 COL |
| 3G89 | \vdash | v | \vdash | V | RST SM 0603 47K PM5 COL RST SM 0603 47K PM5 COL |
| 3G92 3G93 | | v | \vdash | v | RST SM 0603 47K PM5 COL |
| 3G94 | | v | | v | RST SM 0603 47K PM5 COL |
| 3G95 | | ٧ | | ٧ | RST SM 0603 47K PM5 COL |
| 4G09 | | ٧ | | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4G11 | ٧ | | ٧ | _ | RST SM 0603 JUMP. 0R05 COL |
| 4G12 | V | _ | V | _ | RST SM 0603 JUMP. 0R05 COL |
| 4G13 | V | | v | | RST SM 0603 JUMP, 0R05 COL |
| 4G14 4G15 | V | | v | \vdash | RST SM 0603 JUMP. 0R05 COL RST SM 0603 JUMP. 0R05 COL |
| 4G16 | v | | v | _ | RST SM 0603 JUMP. 0R05 COL |
| 4G17 | ٧ | | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4G18 | ٧ | | ٧ | | RST SM 0603 JUMP, 0R05 COL |
| 4G19 | ٧ | | ٧ | | RST SM 0603 JUMP. 0R05 COL |
| 4G22 | L | ٧ | L. | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 5G01 | _ | ٧ | _ | | FXDIND 0603 100MHZ 120R COL R |
| 6G02 | \vdash | V | - | V V | DIO SIG SM BAS316 (COL) R |
| 7G07 7G08 | - | v | \vdash | v | IC SM 74HC4053D (PHSE) R TRA SIG SM BC847B (COL) R |
| 7G09 | | v | \vdash | v | IC SM ADG734BRUZ (ANA0) R |
| | | | | | |

B16 SIDE CONNECTORS

| ltem | LC4.3x - CINCH | LC4.3E - SCART | LC4.9x - PDP | LC4.8x - LCD | Description |
|------|----------------|----------------|--------------|--------------|--------------------------------|
| 1J00 | | | ٧ | ٧ | CON V 10P M 2.00 PH B |
| 1J01 | | | ٧ | ٧ | CON V 11P M 2.00 PH B |
| 1J02 | ٧ | ٧ | | | CON V 12P M 2.00 PH B |
| 1J03 | ٧ | ٧ | | | CON V 3P M 2.00 PH B |
| 1J07 | | | ٧ | ٧ | FUSE SM T 3A 125V UL R |
| 1J08 | | | ٧ | ٧ | FUSE SM F 630MA 50V UL R |
| 2J31 | | | ٧ | v | CER1 0402 NP0 50V 100P COL |
| 3J03 | ٧ | ٧ | | V | RST SM 0402 68R PM5 COL |
| 3J04 | ٧ | ٧ | | ٧ | RST SM 0402 68R PM5 COL |
| 4J01 | | | ٧ | ٧ | RST SM 0402 JUMP. 0R05 COL |
| 5J04 | | | ٧ | v | IND FXD 1206 EMI 100MHZ 120R R |

B17 SIDE CONNECTORS

| Item | LC4.3x - ME5 styling | LC4.3x - Arch Styling | LC4.8x - LCD | LC4.9x - PDP | Description |
|------|----------------------|-----------------------|--------------|--------------|------------------------------|
| 1K00 | ٧ | | ٧ | V | CON V 6P M 2.00 PH B |
| 1K01 | ٧ | | | | CON V 12P M 2.00 PH B |
| 1K03 | | ٧ | | | CON V 20P F 1.25 FFC 0.3 B |
| 1K04 | | | ٧ | ٧ | CON V 11P M 2.00 PH B |
| 2K15 | ٧ | V | | | CER1 0402 NP0 50V 100P COL |
| 3K08 | ٧ | ٧ | | | RST SM 0402 68R PM5 COL |
| 4K02 | | | ٧ | ٧ | RST SM 0603 JUMP. 0R05 COL |
| 4K06 | | ٧ | | | RST SM 0402 JUMP. 0R05 COL |
| 5K01 | ٧ | ٧ | | V | FXDIND SM 0603 1U PM10 COL R |

B18 ADC

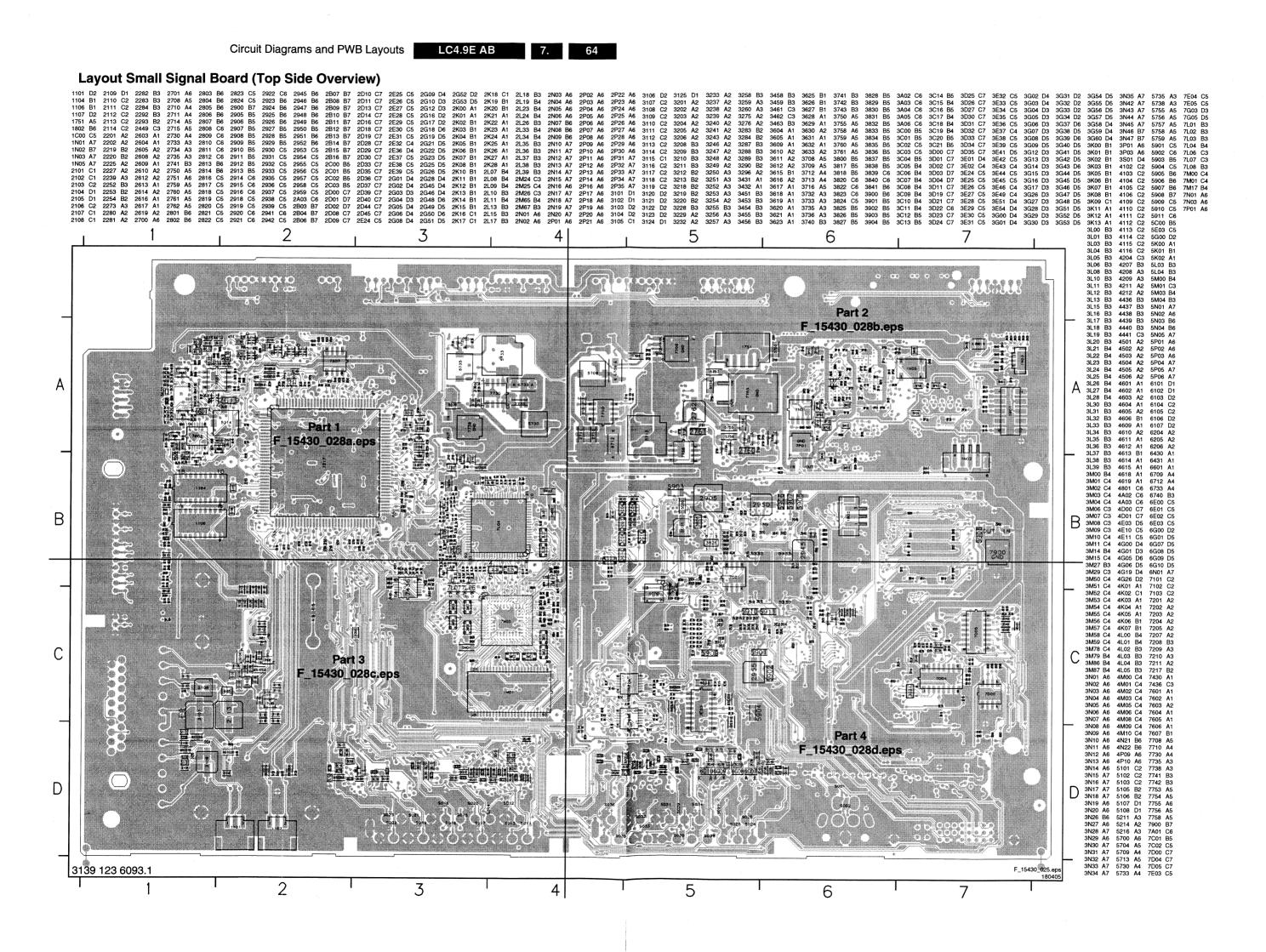
| ltem | non-DVB sets with 3D Comb Filter | DVB sets with 3D Comb Filter | Description |
|------|----------------------------------|------------------------------|----------------------------|
| 3L38 | | V | RST SM 0402 JUMP, 0R05 COL |
| 4L05 | | V | RST SM 0402 JUMP, 0R05 COL |
| 5L04 | | v | RST SM 0603 JUMP. 0R05 COL |

B20 & B21

| Item | LC4.3 non PIXEL+ | < LC4.3 with PIXEL+ | 42PF7320/28 | LC4.8/LC4.9 non PIXEL+ | < LC4.8/LC4.9 with PIXEL+ | Description CON V 4P M 2.00 SM PH R |
|--------------------------------------|------------------|---------------------|-------------|------------------------|---------------------------|--|
| 1N02 1N05 | - | v | ٧ | - | V | OSC XTL SM 14M31818 15P OC R |
| 1P06 | v | V | • | \vdash | • | CON V 30P M 1.25 SM 1453230 R |
| 1P07 | • | • | v | v | v | CON H 31P F 1.25 SM FI-WE R |
| 2N01 | | v | v | Ė | ٧ | CFR2 0402 Y5V 16V 100N COL |
| 2N01 2N02 2N03 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2N03 | | ٧ | ٧ | | ٧ | CER2 0402 X5R 6V3 1U PM20 R |
| 2N04 | - | V | ٧ | - | ٧ | CER2 0402 X7R 50V 1N COL CER2 0402 Y5V 16V 100N COL |
| 2N05 2N06 | - | V | V | _ | v | CER2 0402 Y5V 16V 100N COL |
| 2N07 | | v | v | | v | CER2 0402 Y5V 16V 100N COL |
| 2N08 | | v | ٧ | _ | v | CER2 0402 Y5V 16V 100N COL |
| 2N09 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2N10 | | V | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2N11 | | v | ٧ | _ | V | CER1 0402 NP0 50V 100P COL CER1 0402 NP0 50V 100P COL |
| 2N12 | \vdash | v | ٧ | - | V | CER1 0402 NP0 50V 100P COL |
| 2N12 2N13 2N14 | | v | v | Н | v | CER1 0402 NP0 50V 100P COL CER1 0402 NP0 50V 100P COL |
| 2N15 | | v | v | | v | CER1 0402 NP0 50V 100P COL |
| 2N16 | | v | ٧ | - | ٧ | CER1 0402 NP0 50V 100P COL |
| 2N16 2P01 | | ٧ | > | | ٧ | CER2 0603 X5R 6V3 2U2 PM10 R |
| 2P02 2P03 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P03 | | V | v | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P04 2P05 | - | ٧ | ٧ | | V | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P05 2P06 | | v | v | - | v | CER2 0402 Y5V 16V 100N COL |
| 2D07 | | v | v | - | v | CER2 0402 Y5V 16V 100N COL |
| 2P08 | | v | v | | v | CER2 0402 Y5V 16V 100N COL |
| 2P08 2P09 2P10 2P11 2P12 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P10 | | ٧ | ٧ | | V | CER2 0402 Y5V 16V 100N COL |
| 2P11 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P12 | - | V | ٧ | Н | ٧ | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P13 2P14 2P15 | - | v | v | Н | v | CER2 0402 Y5V 16V 100N COL |
| 2P15 | | v | v | _ | v | ELCAP SM 16V 100U PM20 COL R |
| 2P16 | | v | v | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P16 2P17 | | ٧ | ٧ | | > | CER2 0603 X5R 6V3 2U2 PM10 R |
| 2P18 | | ٧ | ٧ | | ٧ | CER2 0603 X5R 6V3 2U2 PM10 R |
| 2P18 2P19 2P20 | Ш | ν | ٧ | | ٧ | CER2 0603 X5R 6V3 2U2 PM10 R CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P20 | \vdash | V | ٧ | _ | ٧ | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P21 | Н | v | ٧ | - | | CER2 0603 X5R 6V3 2U2 PM10 R |
| 2P22 2P23 | Н | v | v | - | v | CER2 0402 Y5V 16V 100N COL |
| 2P24 | | v | v | | v | CFR2 0402 Y5V 16V 100N COL |
| 2P24 2P25 2P26 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P26 | | ٧ | ٧ | 口 | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P27 2P28 | ш | ٧ | ٧ | _ | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P28 2P29 | Н | V | V | \vdash | ٧ | CER2 0402 Y5V 16V 100N COL CER2 0402 Y5V 16V 100N COL |
| 2P30 | Н | v | v | \vdash | v | CER2 0402 Y5V 16V 100N COL |
| 2P31 | \vdash | v | v | Н | v | CER2 0402 Y5V 16V 100N COL |
| 2P32 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P33 | | ٧ | ٧ | | ٧ | CER2 0402 Y5V 16V 100N COL |
| 2P34 | | ٧ | ٧ | | | CER2 0402 Y5V 16V 100N COL |
| 2P35 | Н | ٧ | ٧ | \vdash | ٧ | CER2 0402 Y5V 16V 100N COL RST SM 0402 10K PM5 COL |
| 3N01 3N02 | Н | v | V | \vdash | v | RST SM 0402 10K PM5 COL RST SM 0402 10K PM5 COL |
| 3N02 3N03 | Н | v | v | - | v | RST SM 0402 10K PM5 COL |
| 3N04 | Н | v | v | | ٧ | RST SM 0402 10K PM5 COL |
| 3N05 | | ٧ | ٧ | | ٧ | RST SM 0402 10K PM5 COL |
| 3N06 3N07 | | ٧ | ٧ | | ٧ | RST SM 0402 10K PM5 COL |
| 3N07 | | ٧ | ٧ | | ٧ | RST SM 0603 33K PM5 COL |
| 3N08 | \vdash | : < | ٧ | Н | ٧ | RST SM 0402 10K PM5 COL |
| 3N09 3N10 | \vdash | < < | ٧ | \vdash | | RST SM 0402 1K PM5 COL RST SM 0402 33K PM5 COL |
| 3N10 | Н | v | v | \vdash | | RST SM 0402 47R PM5 COL |
| 3N12 | Н | v | v | Н | v | RST SM 0402 10K PM5 COL |
| 3N13 | Н | ٧ | ٧ | | ٧ | RST SM 0402 10K PM5 COL |
| 3N14 | | ٧ | ٧ | | ٧ | RST SM 0402 10K PM5 COL |
| 3N15 | | ٧ | ٧ | | | RST SM 0402 47R PM5 COL |
| 3N16 | | ٧ | V | | V | RST SM 0402 47R PM5 COL |
| | | | | | | |

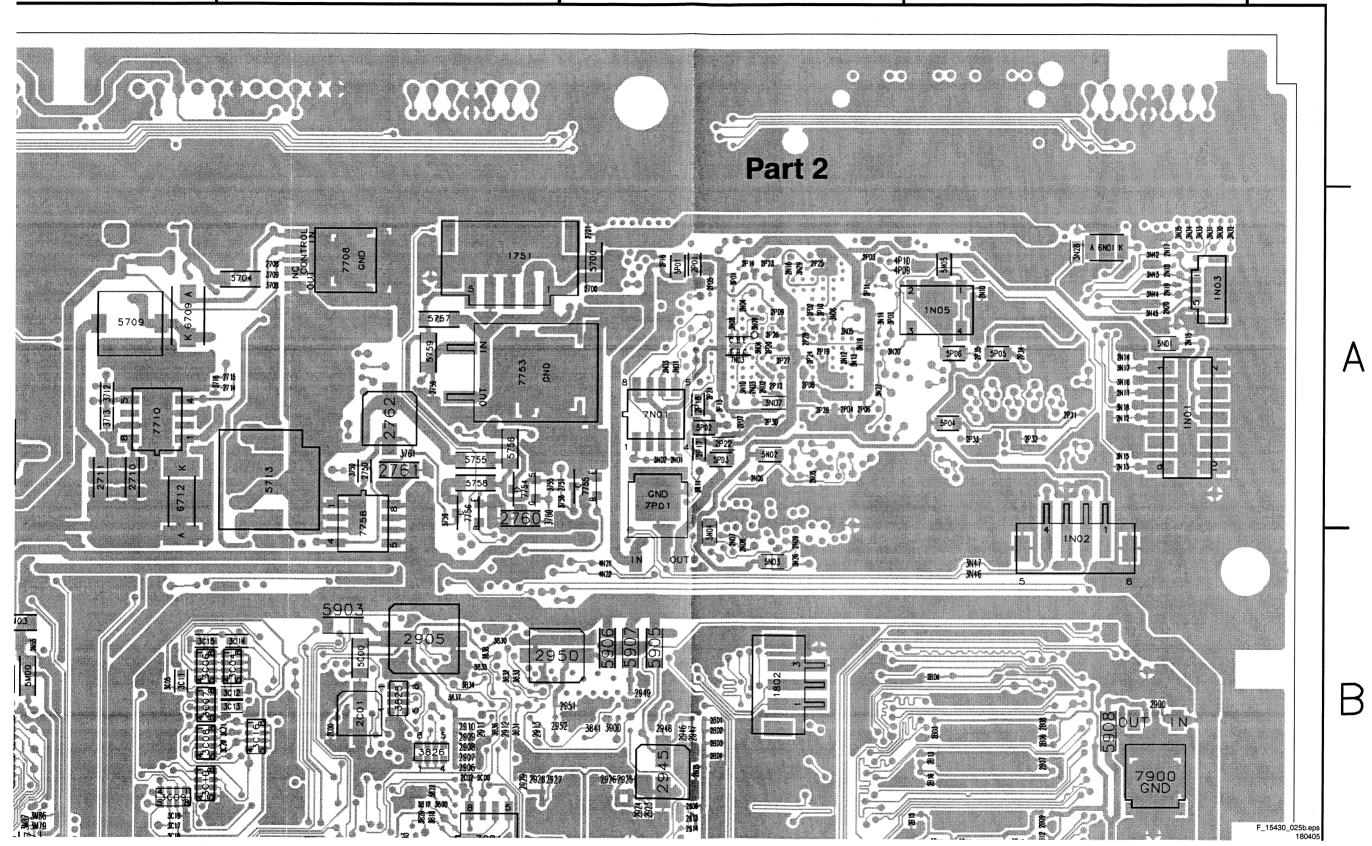
| | | PIXEL | PLUS | |
|--|--|-------|------|--|
|--|--|-------|------|--|

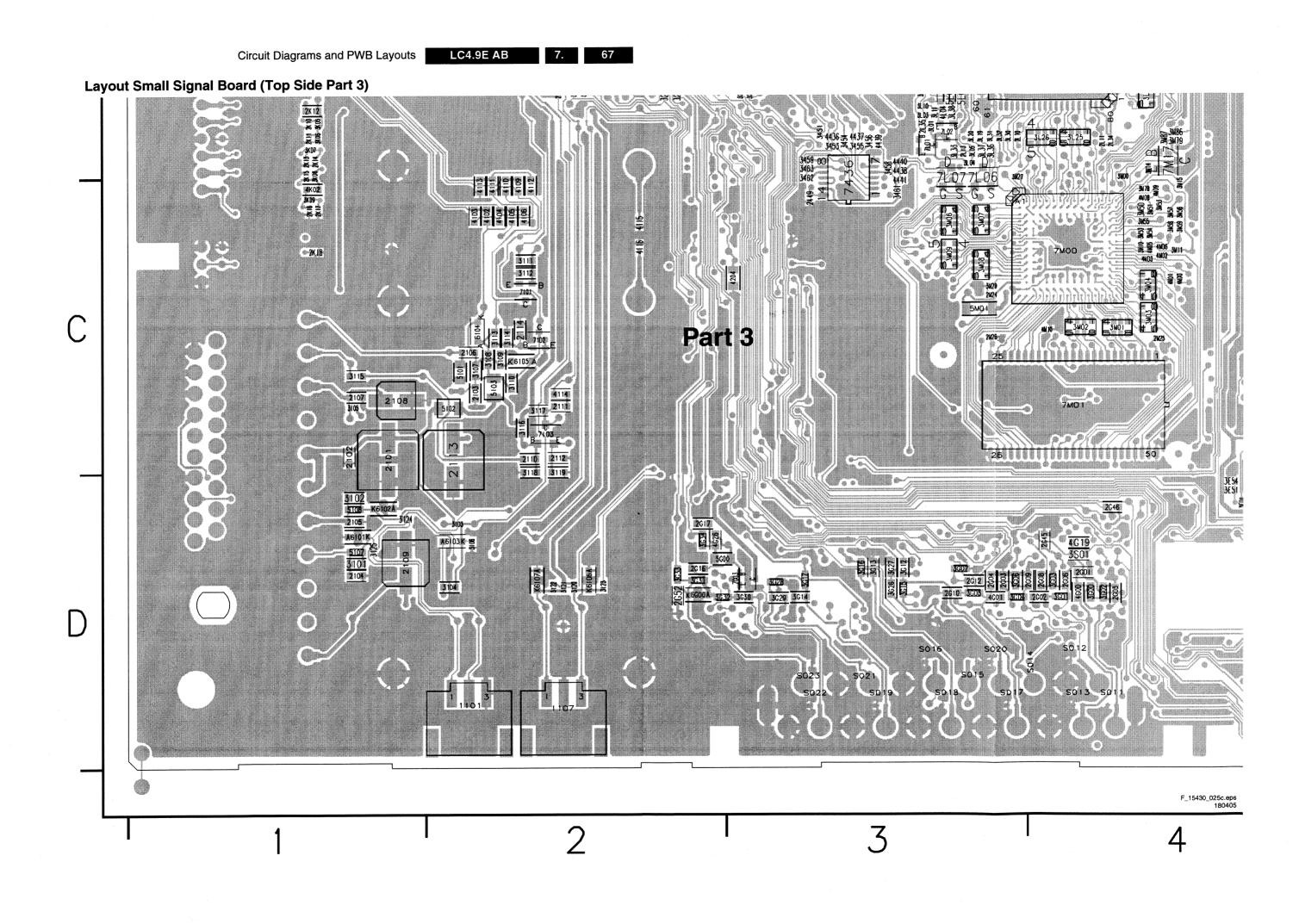
| | C4.3 non PIXEL+ | LC4.3 with PIXEL+ | 12PF7320/28 | C4.8/LC4.9 non PIXEL+ | C4.8/LC4.9 with PIXEL+ | |
|--------------|-----------------|-------------------|-------------|-----------------------|------------------------|--|
| Item | 12 | | , - | 3 | | Description |
| 3N17 3N18 | | V | V | - | V | RST SM 0402 47R PM5 COL RST SM 0402 47R PM5 COL |
| 3N18 3N19 | +- | v | v | - | v | RST SM 0402 47H PM5 COL |
| 3N20 | +- | v | v | - | v | RST SM 0402 47R PM5 COL |
| 3N21 | | ٧ | ν | | ٧ | RST SM 0402 100R PM5 COL |
| 3N22 | 1_ | ٧ | ٧ | | V | RST SM 0402 100R PM5 COL |
| 3N23 3N24 | | V | V | - | V | RST SM 0402 100R PM5 COL RST SM 0402 100R PM5 COL |
| 3N25 | +- | v | v | _ | v | RST SM 0402 100R PM5 COL |
| 3N26 | | ٧ | ٧ | | ٧ | RST SM 0402 4K7 PM5 COL |
| 3N27 | _ | ٧ | ٧ | | ٧ | RST SM 0402 47R PM5 COL |
| 3N28 3N29 | \vdash | V | V | - | V | RST SM 0603 180R PM5 COL RST SM 0402 100R PM5 COL |
| 3N30 | +- | v | v | \vdash | v | IRST SM 0402 100R PM5 COL |
| 3N31 | | ٧ | ٧ | | ٧ | RST SM 0402 100R PM5 COL |
| 3N32 | _ | ٧ | ٧ | _ | ٧ | RST SM 0402 100R PM5 COL |
| 3N33 3N34 | ┼ | V | V | ⊢ | V | RST SM 0402 100R PM5 COL RST SM 0402 100R PM5 COL |
| 3N35 | + | v | v | _ | v | RST SM 0402 100R PM5 COL |
| 3N46 | | ٧ | V | | ٧ | IRST SM 0402 100R PM5 COL |
| 3N47 | | V | ٧ | _ | ٧ | RST SM 0402 100R PM5 COL |
| 3P01 3P03 | ⊢ | V | V | - | V | RST SM 0402 100R PM5 COL RST SM 0402 4K7 PM5 COL RST SM 0402 47R PM5 COL |
| 3P04 | + | • | | v | ۲ | RST SM 0402 100R PM5 COL |
| 3P04 | | | | | ٧ | RST SM 0402 JUMP. 0R05 COL |
| 3P05 | | | | ٧ | | RST SM 0402 100R PM5 COL |
| 3P05 4N01 | v | <u> </u> | ├- | v | V | RST SM 0402 JUMP, 0R05 COL RST SM 0402 JUMP, 0R05 COL |
| 4N02 | lv | ├─ | \vdash | v | \vdash | RST SM 0402 JUMP. 0R05 COL |
| 4N03 | v | | | ٧ | | RST SM 0402 JUMP. 0R05 COL |
| 4N04 | ν | | | ٧ | | RST SM 0402 JUMP. 0R05 COL |
| 4N05 4N06 | V | - | ⊢ | V | ⊢ | RST SM 0402 JUMP. 0R05 COL RST SM 0402 JUMP. 0R05 COL |
| 4N07 | l v | \vdash | \vdash | v | ⊢ | RST SM 0402 JUMP. 0R05 COL |
| 4N08 | v | | | V | | RST SM 0402 JUMP, 0R05 COL |
| 4N09 | V | | | ٧ | | RST SM 0402 JUMP, 0R05 COL |
| 4N10 4N11 | V | ┝ | ├ | V | ⊢ | RST SM 0402 JUMP. 0R05 COL RST SM 0402 JUMP. 0R05 COL |
| 4N12 | v | \vdash | \vdash | v | \vdash | RST SM 0402 JUMP, 0R05 COL |
| 4N13 | V | | | ٧ | | RST SM 0402 JUMP. 0R05 COL |
| 4N14 | V | _ | _ | ٧ | _ | RST SM 0402 JUMP. 0R05 COL |
| 4N15 4N16 | V | | - | ٧ | - | RST SM 0402 JUMP. 0R05 COL RST SM 0402 JUMP. 0R05 COL |
| 4N17 | Ť | - | | v | - | RST SM 0402 JUMP, 0R05 COL |
| 4N18 | ν | | | ٧ | | RST SM 0402 JUMP. 0R05 COL |
| 4N19 4N20 | V | <u> </u> | _ | V | <u> </u> | RST SM 0402 JUMP, 0R05 COL RST SM 0402 JUMP, 0R05 COL |
| 4N20 4N21 | V | v | v | V | v | RST SM 0402 JUMP, 0R05 COL RST SM 0402 JUMP, 0R05 COL |
| 4N22 | \perp | v | v | | v | RST SM 0402 JUMP. 0R05 COL |
| 4P01 | | | | | | RST SM 0402 JUMP, 0R05 COL |
| 4P02 4P07 | - | _ | - | v | - | RST SM 0402 JUMP. 0R05 COL RST SM 0402 JUMP. 0R05 COL |
| 5N01 | +- | v | v | ٧. | v | FXDIND 0805 100MHZ 30R COL R |
| 5N02 | | v | v | | v | FXDIND 0805 100MHZ 30R COL R FXDIND 0805 100MHZ 30R COL R |
| 5N03 | | ٧ | ٧ | | ٧ | FXDIND 0805 100MHZ 30R COL R |
| 5N04 | 1 | V | V | <u> </u> | V | |
| 5N05 5P01 | + | v | V | - | v | FXDIND 0805 100MHZ 30R COL R |
| 5P02 | 1 | v | v | _ | v | FXDIND 0805 100MHZ 30R COL R |
| 5P03 | | ٧ | ٧ | | ٧ | FXDIND 0805 100MHZ 30R COL R |
| 5P04 | 1 | ٧ | V | <u> </u> | V | FXDIND 0805 100MHZ 30R COL R |
| 5P05 5P06 | \vdash | V | ٧ | - | V | FXDIND 0805 100MHZ 30R COL R |
| 6N01 | + | v | v | _ | v | LED VS SM TLMG3100 (VISH) R |
| 7N01 | | ν | ν | | ν | IC SM EPCS4SI8N (ALTO) R |
| 7N02 | \vdash | ٧ | ٧ | | ٧ | IC SM EP1C12F256C8N (ALTO) Y |
| 7N03 7N04 | ╁ | V | V | - | V | TRA SIG SM BC847BS (PHSE) R IC SM THC63LVDF84B (THIN) R |
| 7P01 | \vdash | v | v | _ | v | IC SM LF15ABDT (ST00) R |
| 7P02 | | ٧ | ν | | ν | IC SM THC63LVDM83R (THIN) R |
| | | | | | | |



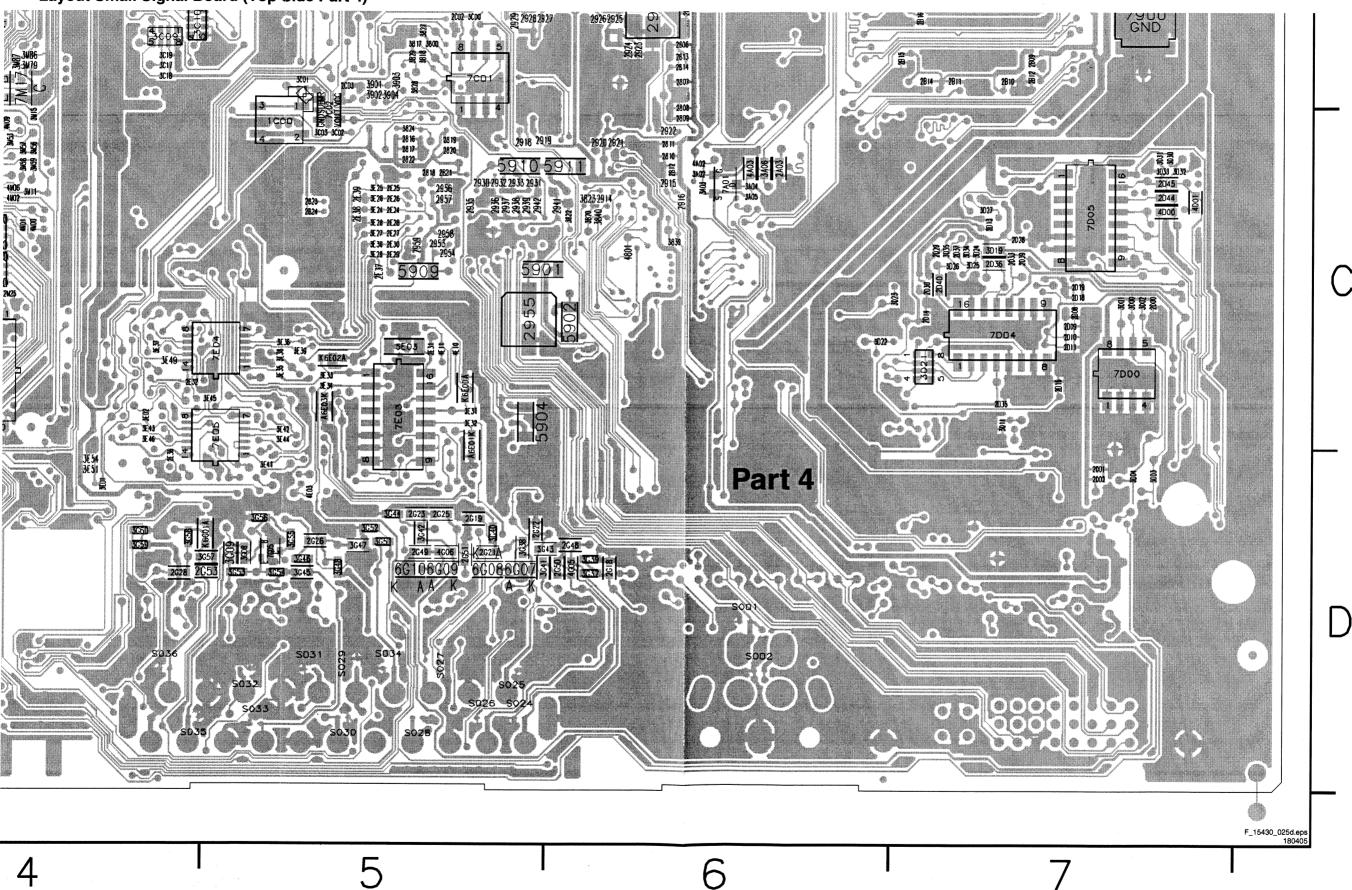
Layout Small Signal Board (Top Side Part 2)

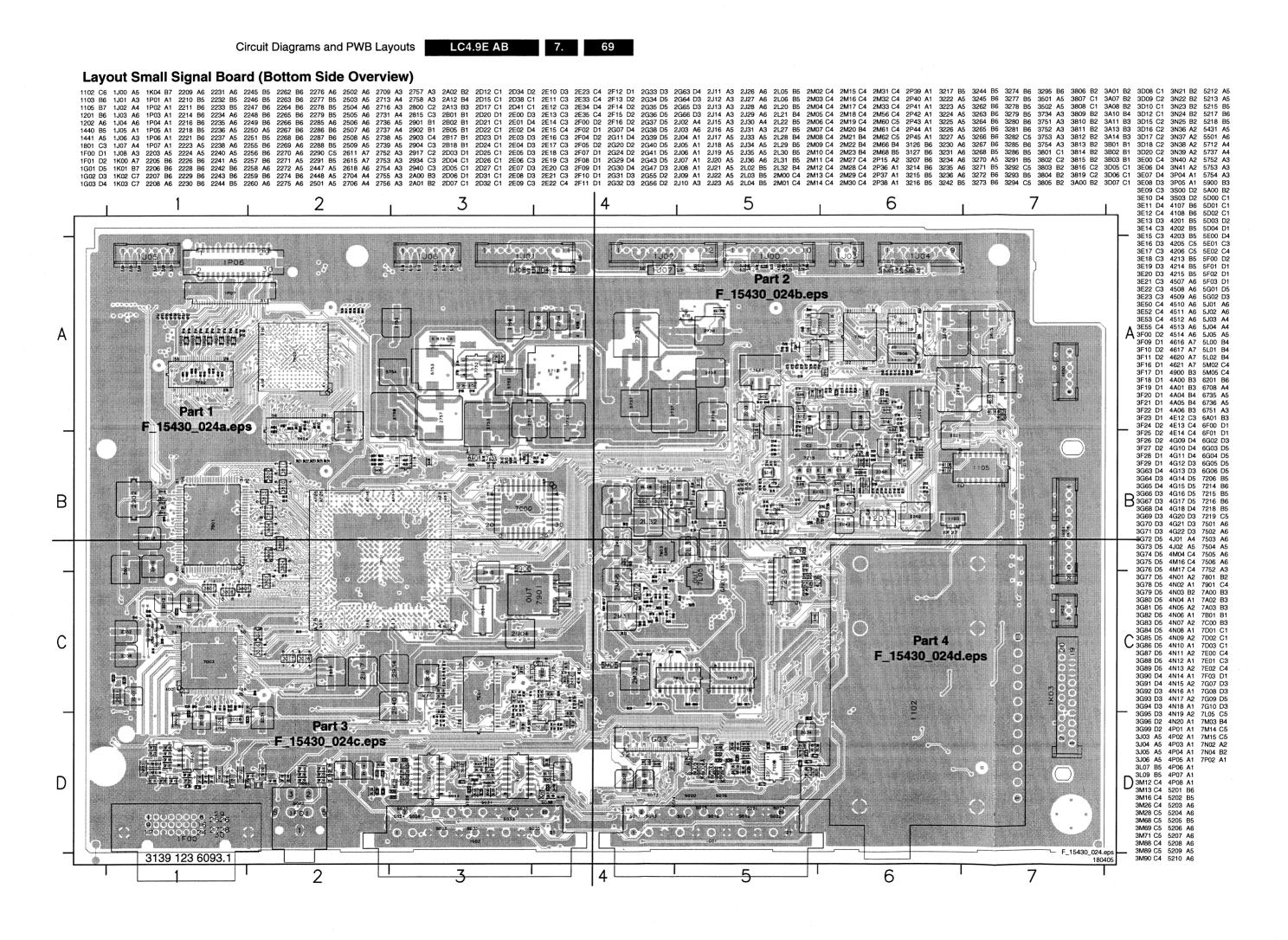
4 ₁ 5 ₁ 6 ₁ 7





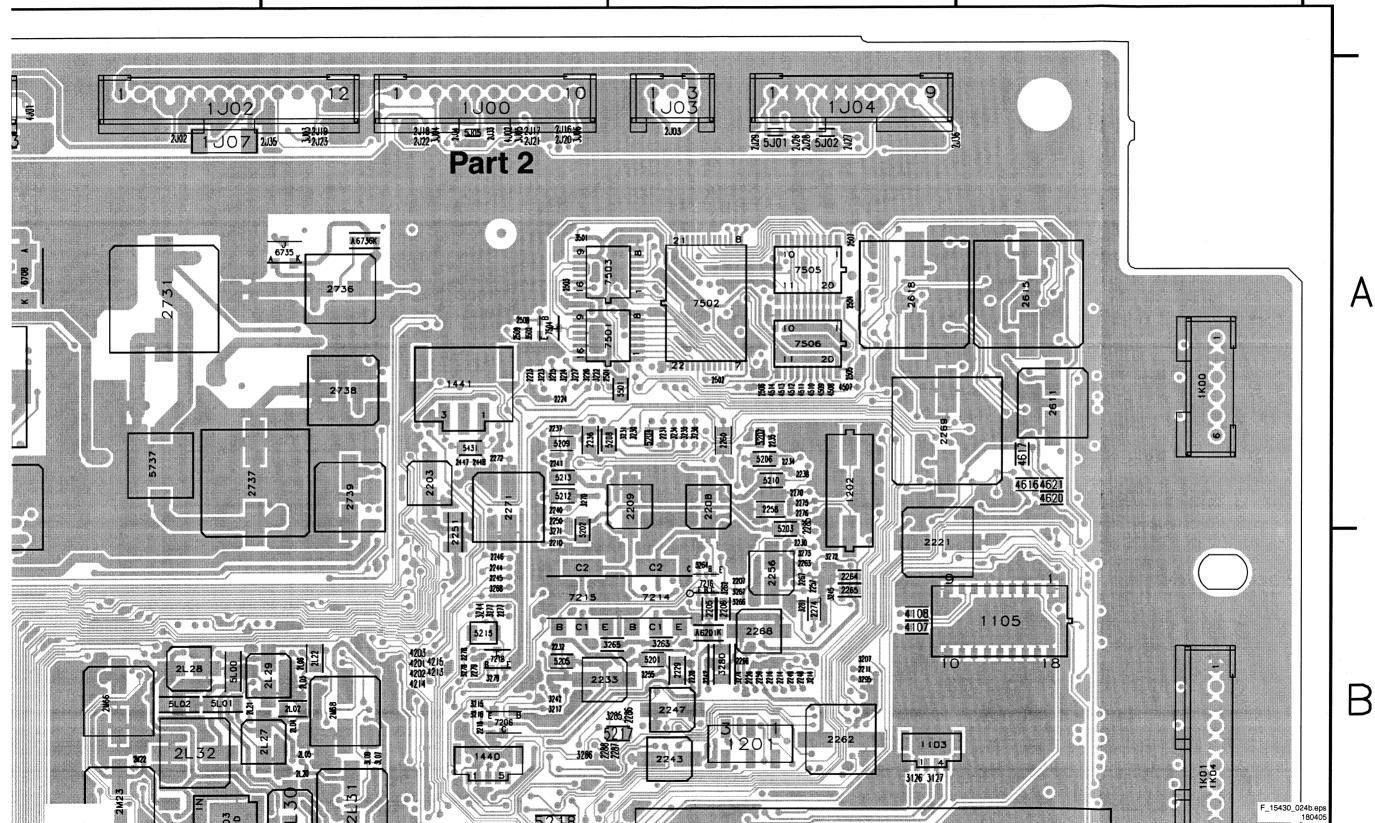
Layout Small Signal Board (Top Side Part 4)

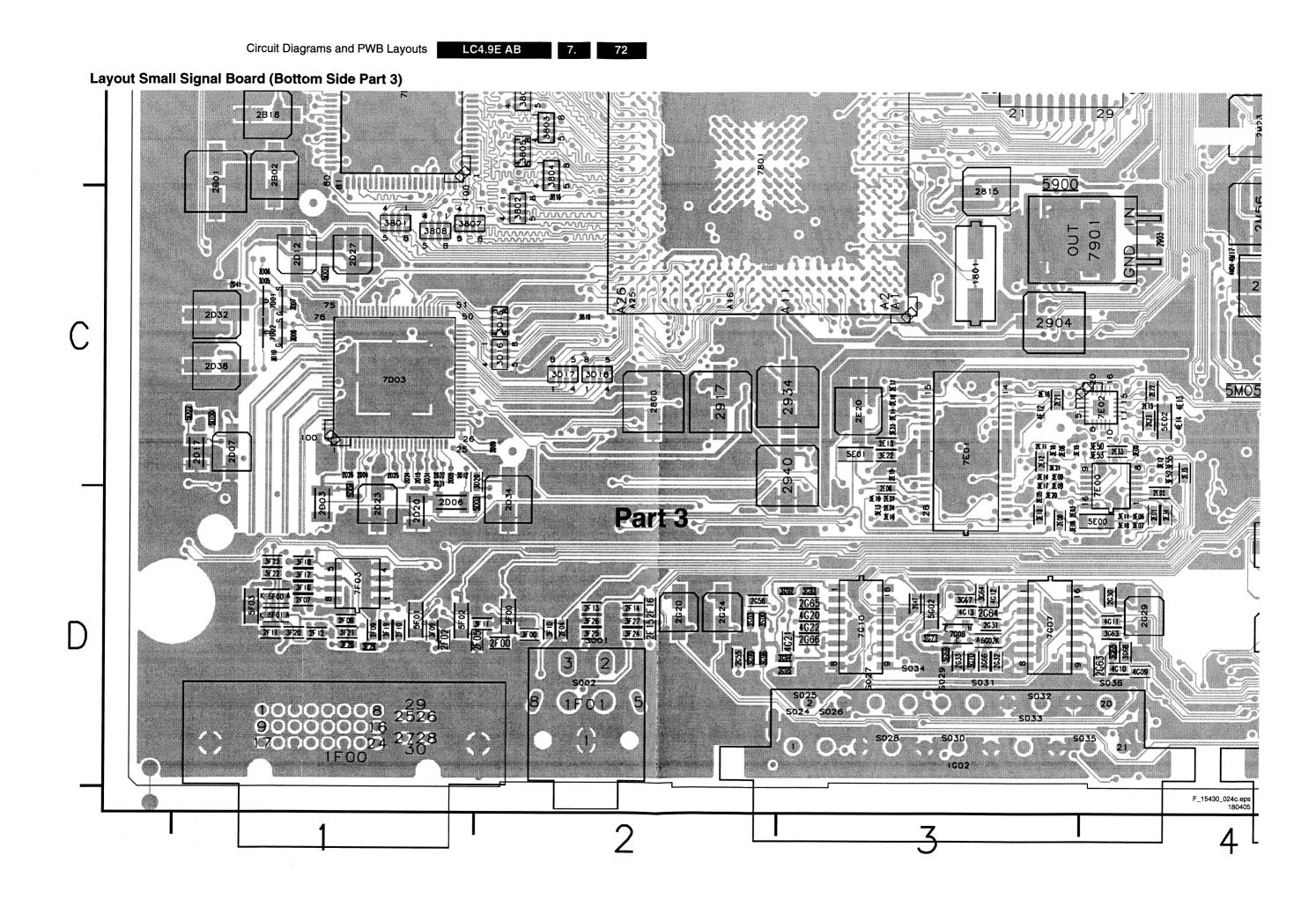


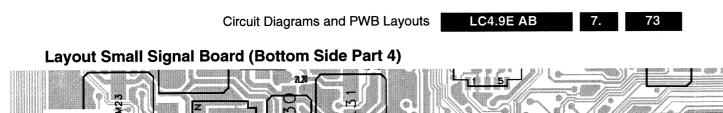


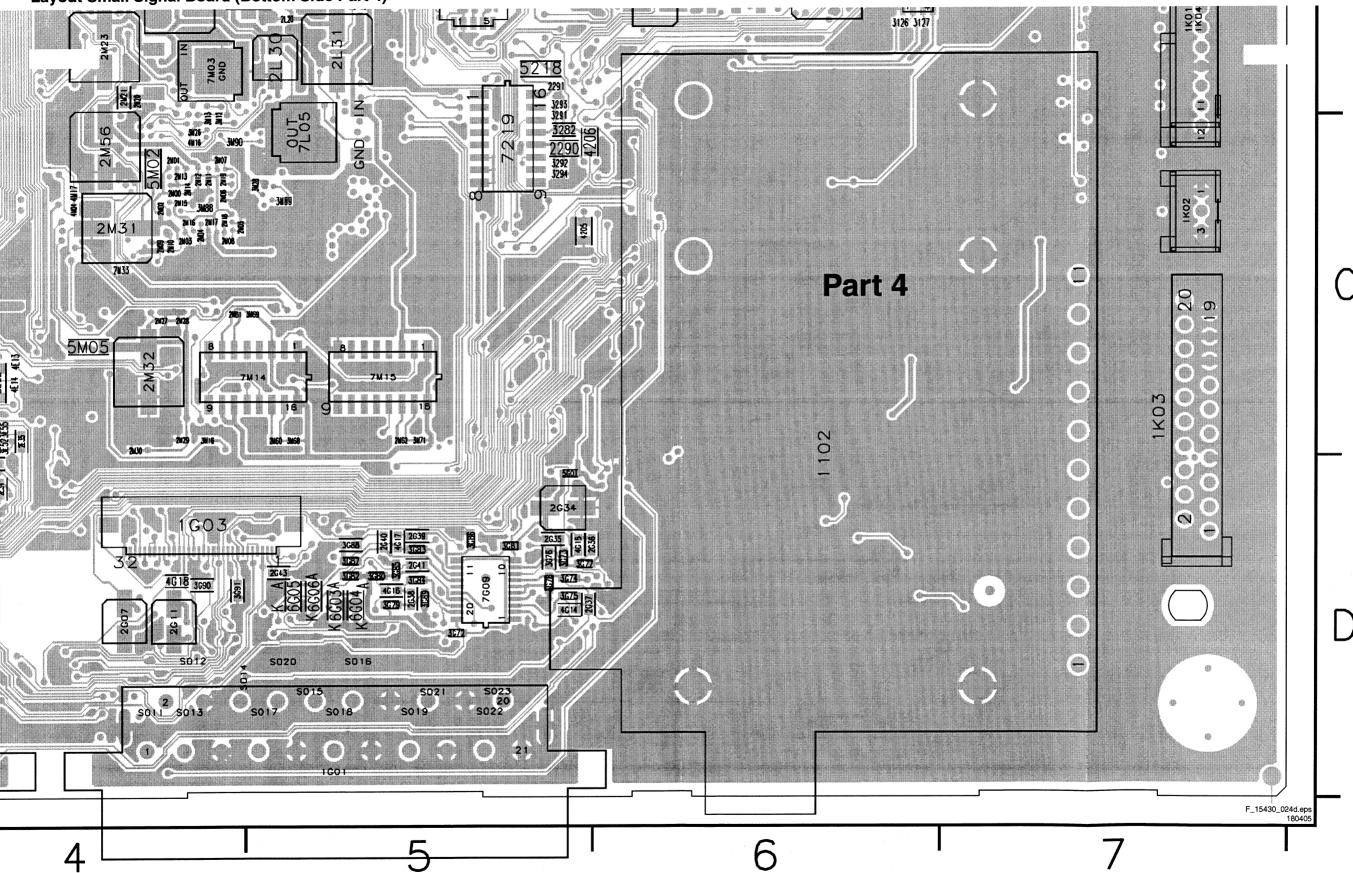
Layout Small Signal Board (Bottom Side Part 2)

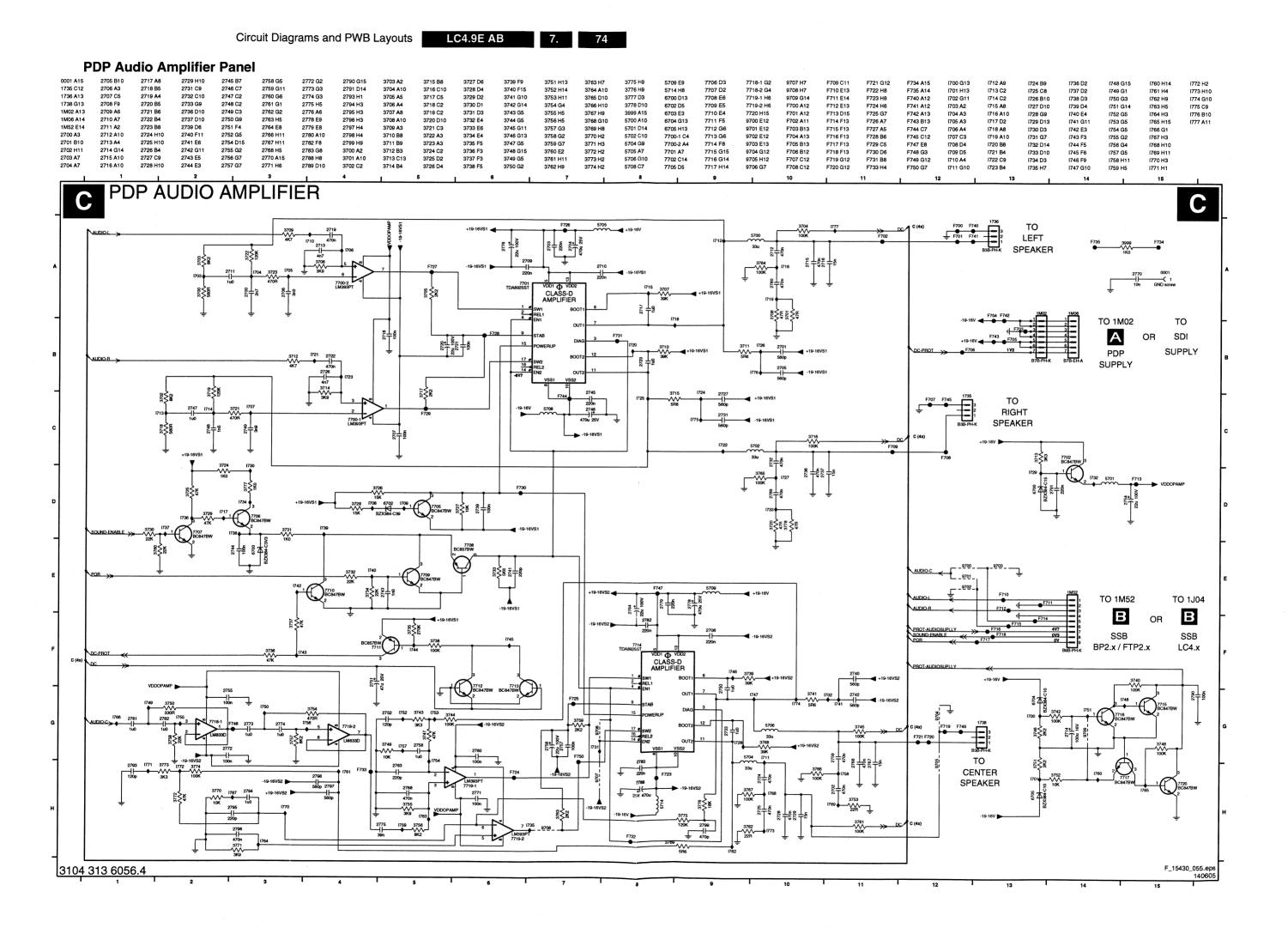
4 <u>5</u> <u>6</u> <u>7</u>



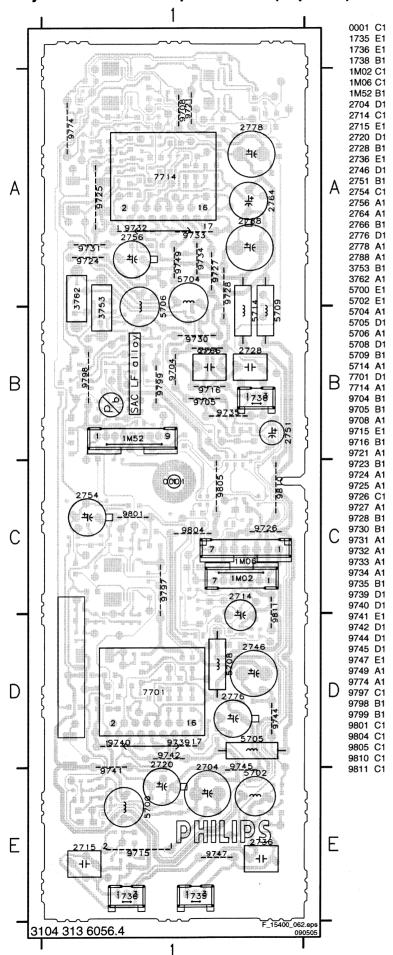




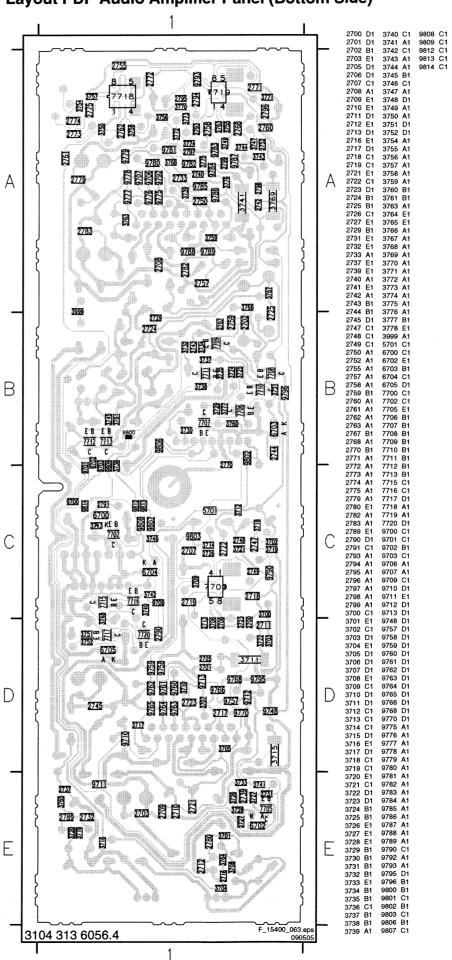


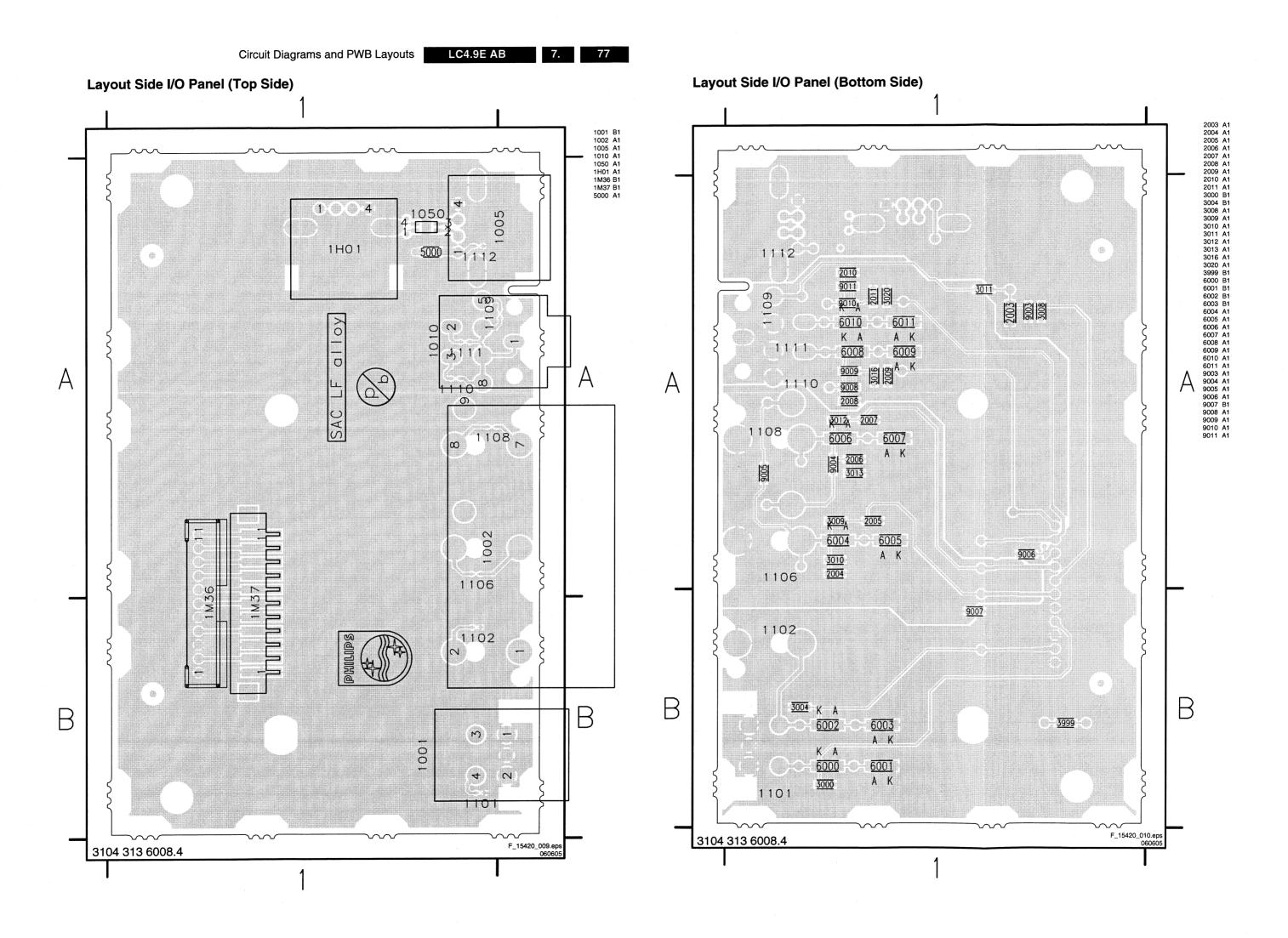


Layout PDP Audio Amplifier Panel (Top Side)

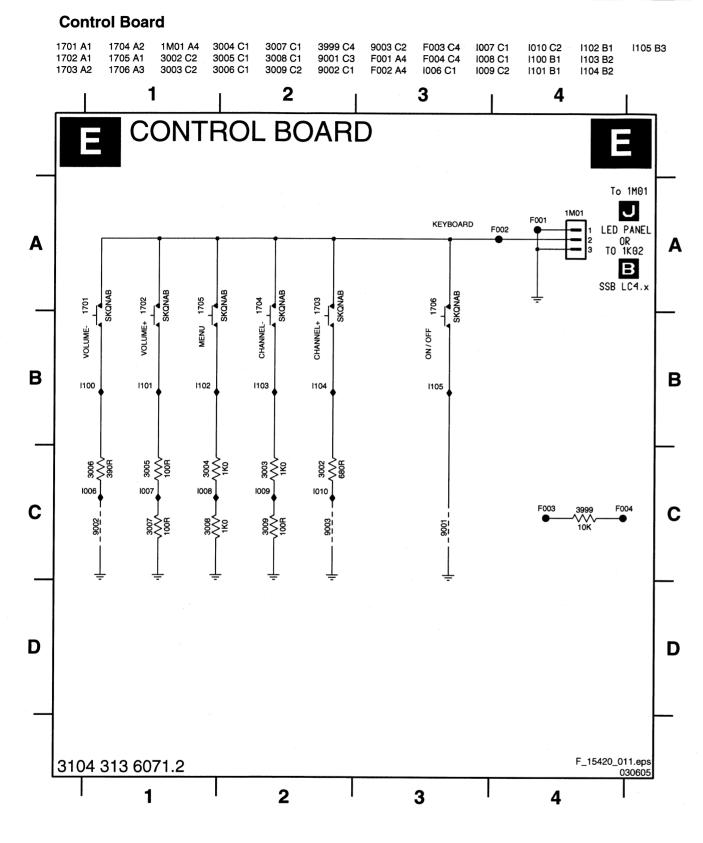


Layout PDP Audio Amplifier Panel (Bottom Side)

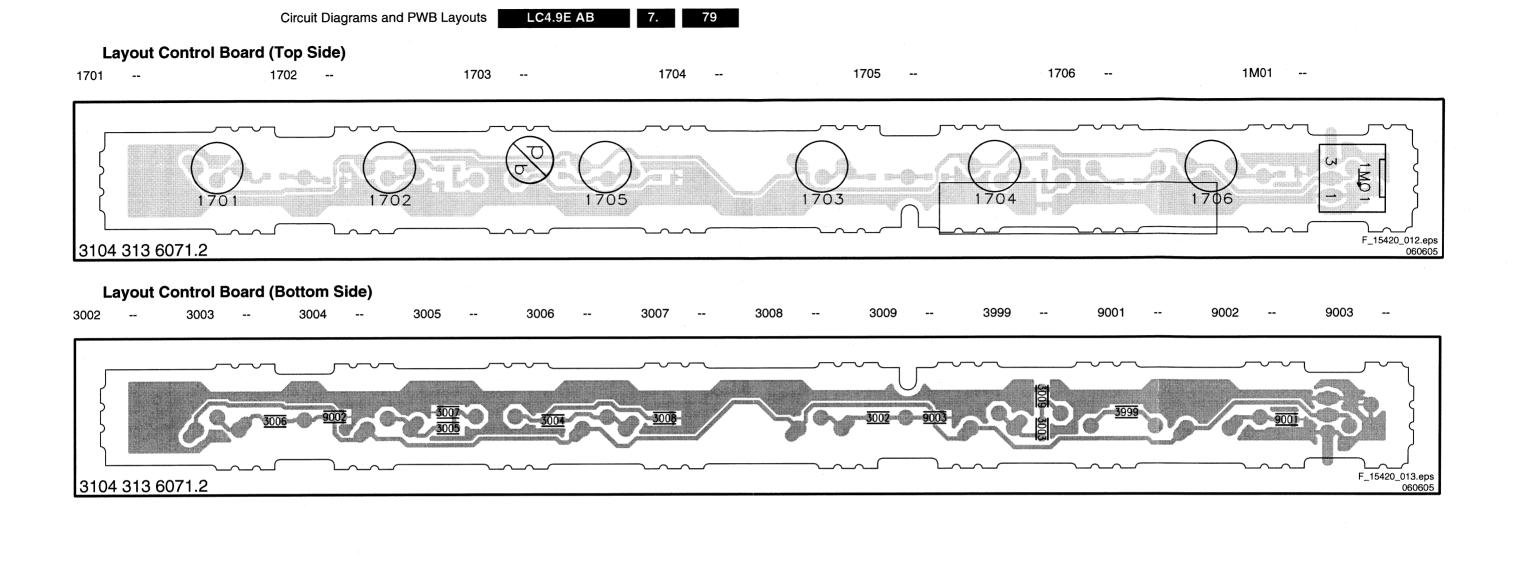








| Personal Notes: | |
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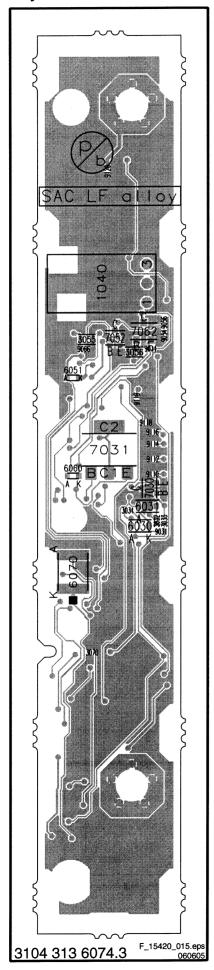


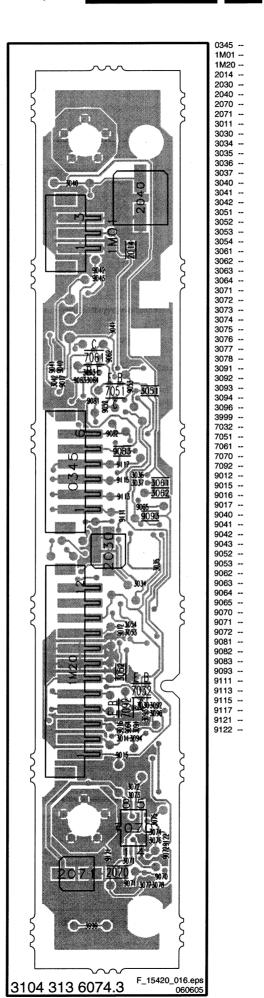
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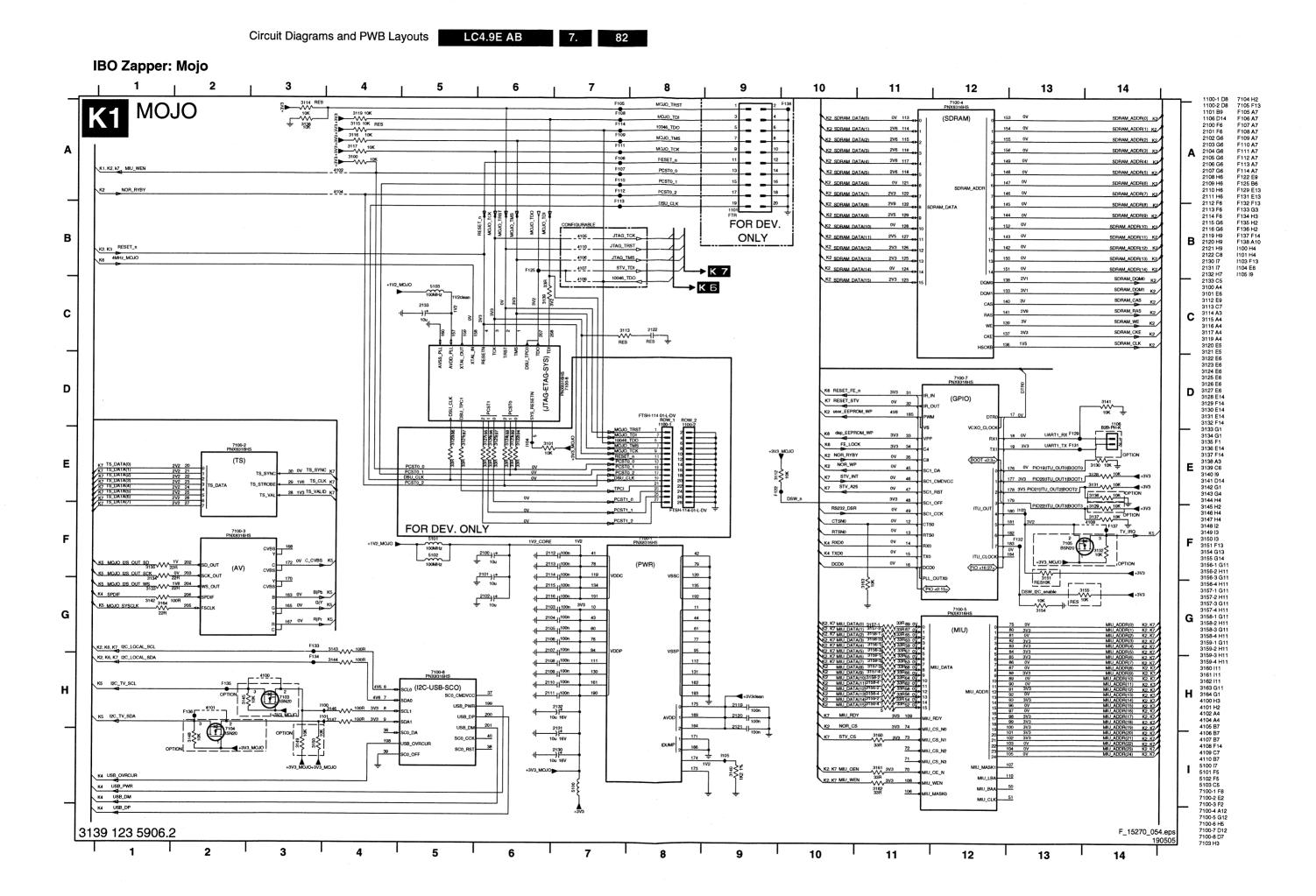
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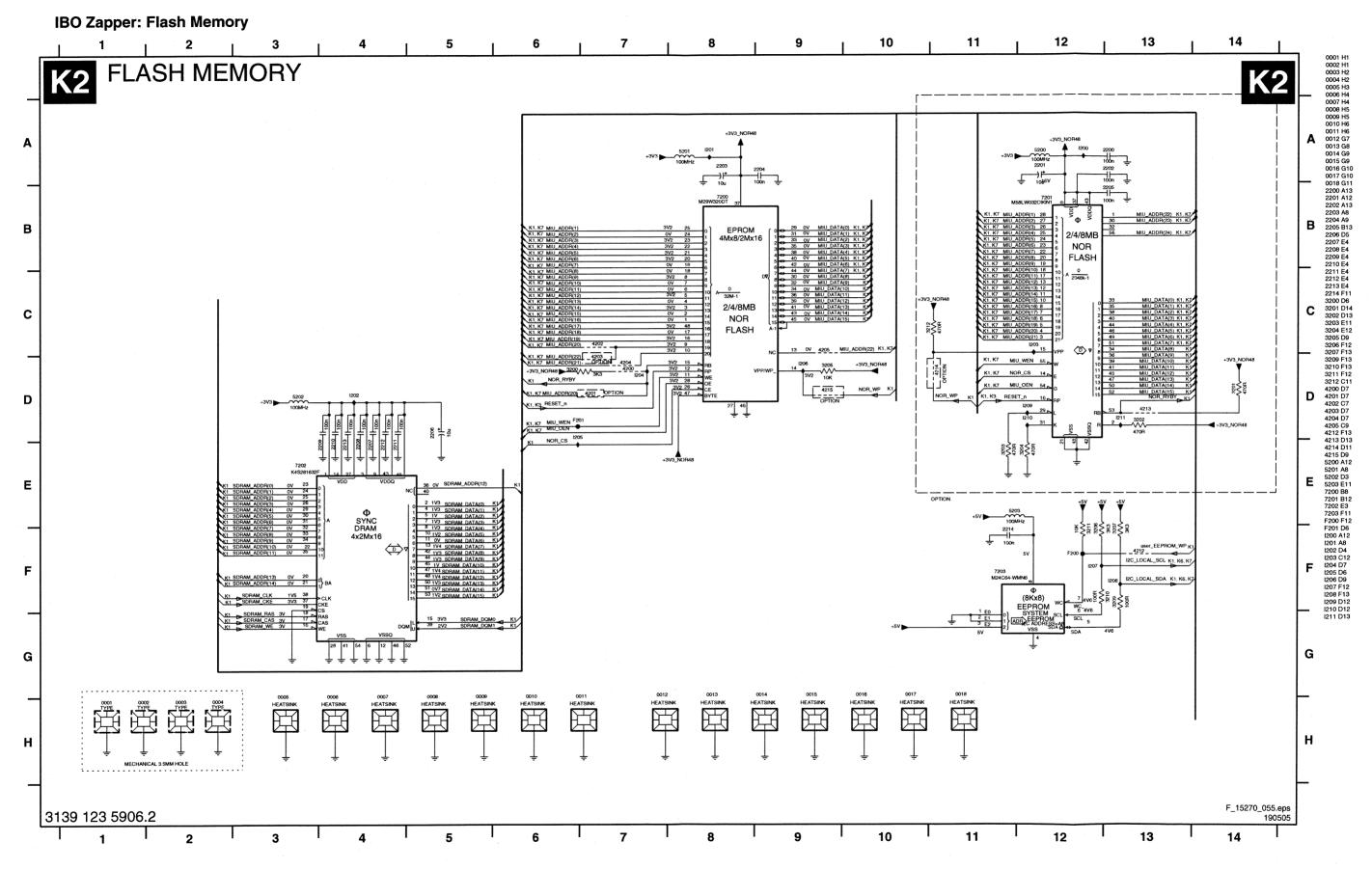
Layout LED Panel





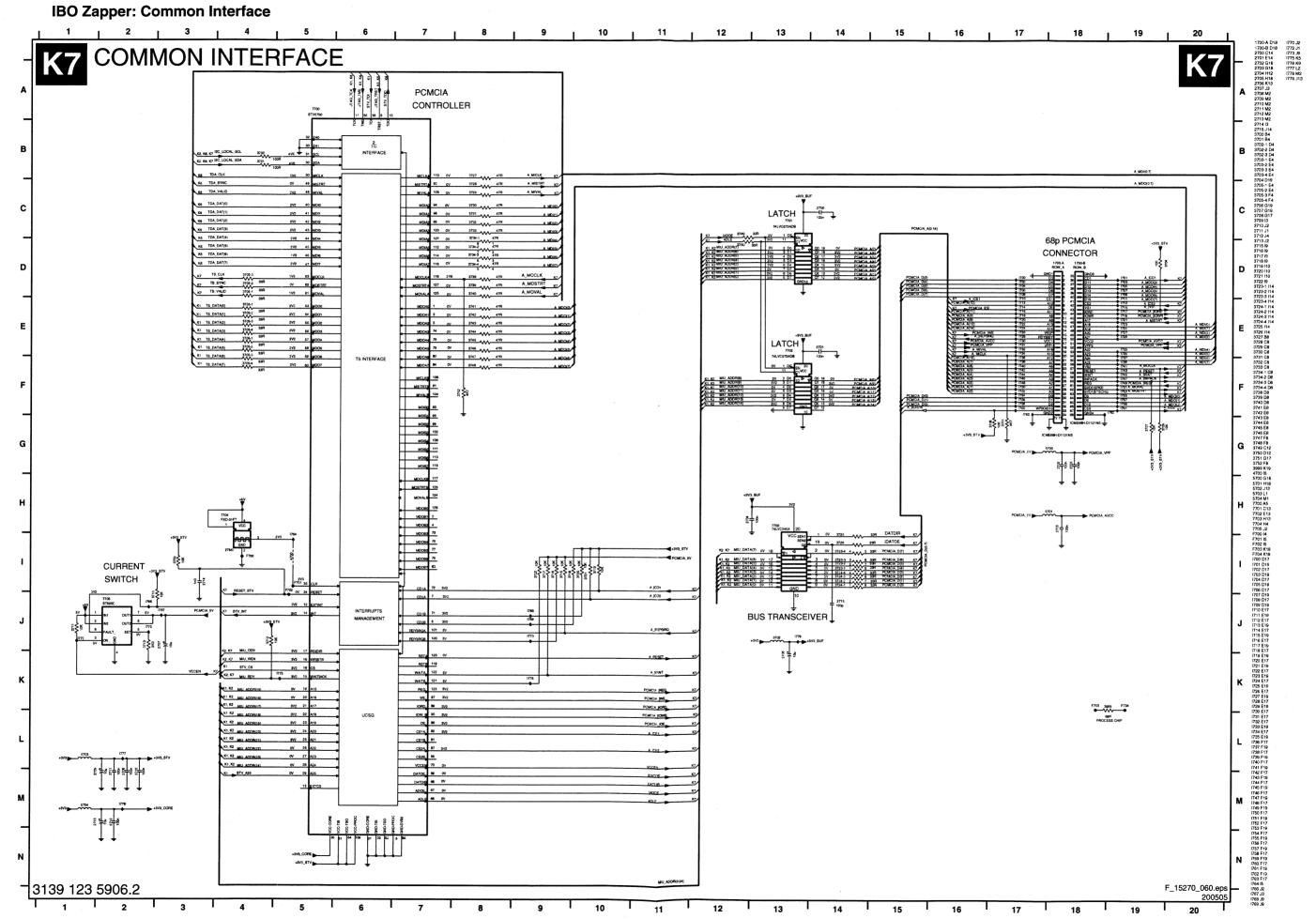
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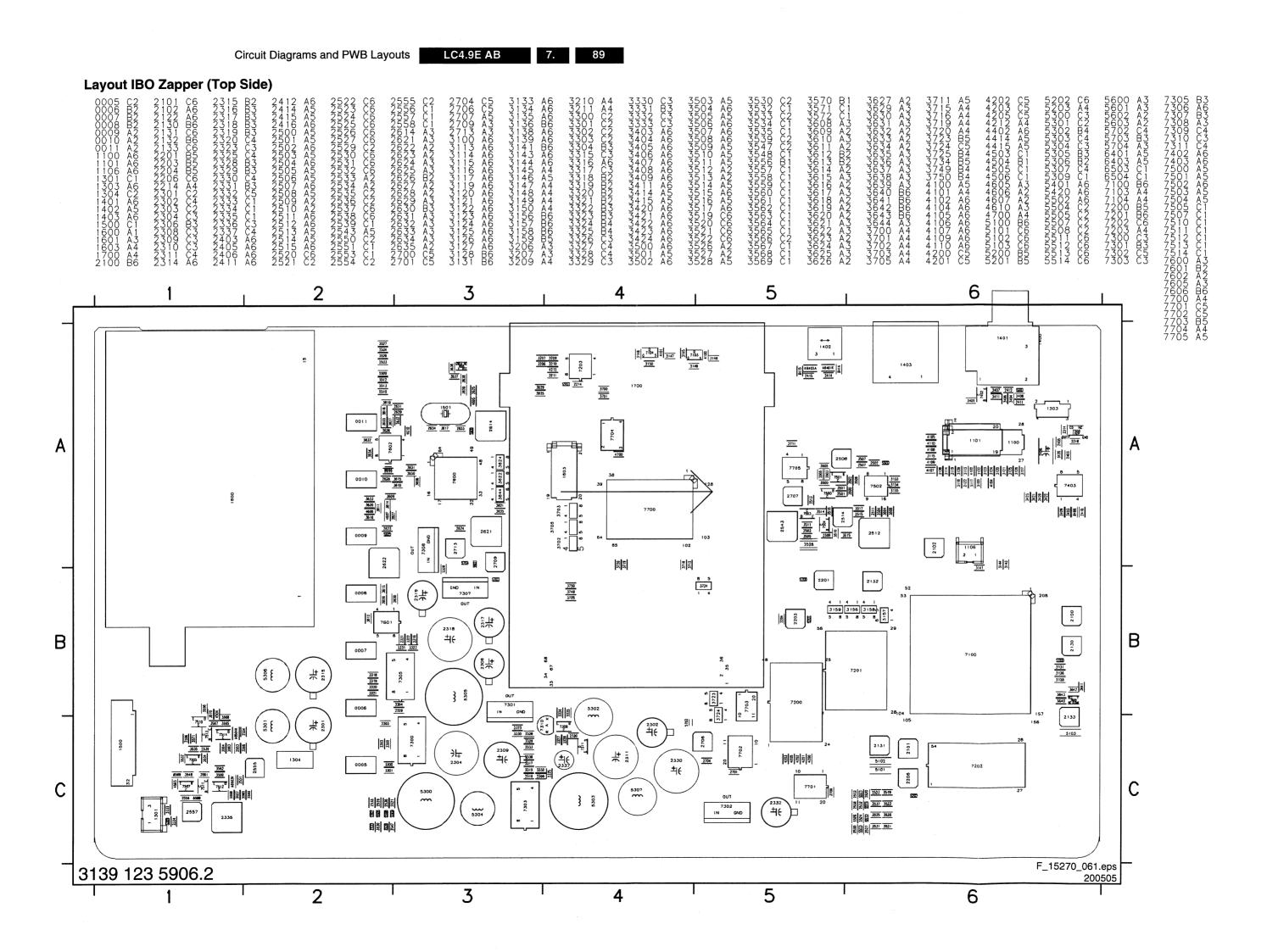


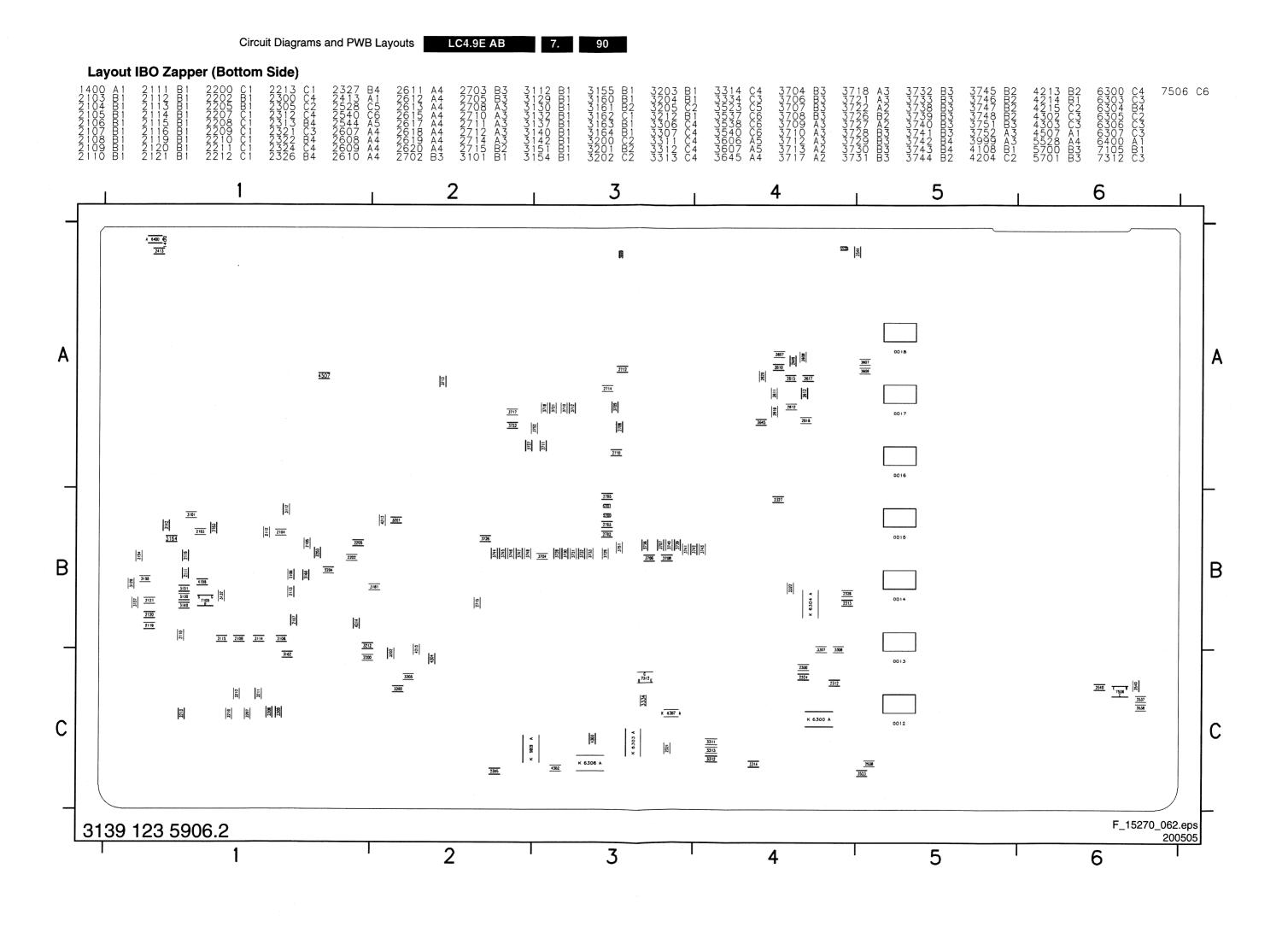


LC4.9E AB

LC4.9E AB







8. Alignments

Index of this chapter:

8.1 General Alignment Conditions

8.2 Hardware Alignments

8.3 Software Alignments

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

General: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the Cursor Up, Down, Left or Right keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:

Mains voltage and frequency: 100-240 V / 50/60 Hz. Allow the set to warm up for approximately 10 minutes. Test probe: Ri > 10 M Ω ; Ci < 2.5 pF.

8.2 Hardware Alignments

There are no hardware alignments foreseen for the plasma-TV.

8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the geometry, white tone and tuner (IF) can be aligned. To store the data: Use the RC button Menu to switch to the main menu and next, switch to 'Stand-by' mode.

8.3.1 SAM Menu

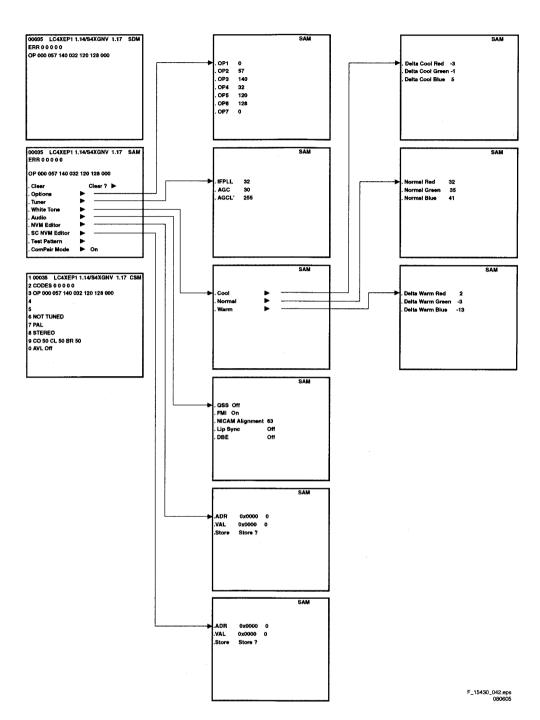


Figure 8-1 Overview SAM menu.

8.3.2 Tuner Adjustment

AGC (RF AGC Take Over Point)

- Activate the SAM menu.
- Go to the sub-menu Tuner.
- Select the AGC sub-menu.
- Adjust the AGC value to AGC = 27.
- Adjust the AGC L' value to AGC L' = 27 (Europe only).
- Adjust the IFPLL value to IFPLL = 32 (Europe only).
- Switch the set to standby to store the data.

8.3.3 DCXO (Digital Xtal Oscillator) Alignment (for NICAM set s only)

- Input a Colour bar signal with a colour subcarier frequency of 4.43 MHz on SCART1 or SCART2.
- Select as a signal source EXT1 or AV1.
- Go to the SAM menu and select Audio.
- Activate DCXO Alignment and wait until this process las finished (DONE).
- Check if the NICAM audio reception is OK, if not: repeatine procedure.
- Switch the set to standby to store the data.

The table below shows a number of NVM settings used for each model of TV set. Be sure to use the correct editor in the SAM menu (NVM Editor or SC NVM Editor), because the first one is used for the Hercules NVM, and the second one for the SCALER (SC) part of the TV set. For further important NVM settings, see also the other NVM tables elsewhere in this manual.

Caution:

- Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!
- Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the orgininal settings, if the new settings turn out to be incorrect.

Table 8-1 ADC gain and grey scale alignment

| SDTV ADC Gain settings: Use the NVM Editor in SAM to set these values in the Hercules NVM | | | | | | | | | |
|---|--|--------------|--------------|---|--|--|--|--|--|
| These models are with ADC & Columbus 3D Combfilter | | | | | | | | | |
| Setting | Hercules NVM Address (decimal value) | 42PF7520D/10 | 42PF5520D/10 | Settings Range (decimal value) | | | | | |
| NVM_ADC_GAIN_R | 006 | 143 | 143 | 075 - 155 | | | | | |
| NVM_ADC_GAIN_G | 007 | 191 | 191 | 200 - 250 | | | | | |
| NVM_ADC_GAIN_B | 008 | 143 | 143 | 075 - 155 | | | | | |

| | gs: Use the SC NV | | in SAM | to set these |
|--|---|--|--------------------------------|---|
| | values in the Scale | These n | | re with ADC Combfilter |
| Setting | Scaler NVM Address (decimal value) | 42PF7520D/10 | 42PF5520D/10 | Settings Range (decimal value) |
| ADC RED OFFSET2 | 338 | 080 | 080 | 050 - 110 |
| ADC_GRN_OFFSET2 | 339 | 080 | 080 | 050 - 110 |
| ADC_BLU_OFFSET2 | 340 | 080 | 080 | 050 - 110 |
| ADC_RED_GAIN | 341 | 154 | 154 | 045 - 095 |
| ADC_GRN_GAIN | 343 | 154 | 154 | 045 - 095 |
| ADC_BLU_GAIN | 345 | 154 | 154 | 045 - 095 |
| | PC Grevscale se | Hinge | | |
| | re dieyscale se | | | re with ADC |
| | | | | D Combfilte |
| Setting | Scaler NVM Address (decimal value) | 42PF7520D/10 | 42PF5520D/10 | Settings Range (decimal value) |
| ADC RED OFFSET2 | 325 | 080 | 080 | 040 - 090 |
| ADC GRN OFFSET2 | 326 | 080 | 080 | 040 - 090 |
| ADC BLU OFFSET2 | 327 | 080 | 080 | 040 - 090 |
| ADC_RED_GAIN | 328 | 154 | 154 | 180 - 270 |
| | 330 | 154 | 154 | 180 - 270 |
| ADC GRN GAIN | | | | |
| ADC_BLU_GAIN | 332 | 154 | 154 | 180 - 270 |
| | 332 | 154 | 154 | |
| | | 154 ttings | | 180 - 270 |
| | 332 | 154 ttings | nodels a | |
| | 332 | 154 ttings | nodels a | 180 - 270 |
| ADC_BLU_GAIN | 332 HD Greyscale se Scaler NVM Address | 154 ttings These n & Colu | nodels a mbus 31 | 180 - 270 Tre with ADC Combfilte Settings Range (decimal |
| ADC_BLU_GAIN | 332 HD Greyscale se Scaler NVM Address (decimal value) | ttings These n & Colu | 42PF5520D/10 snqw s slappou | 180 - 270 are with ADC Combfilte Settings Range (decimal value) |
| ADC_BLU_GAIN Setting ADC_RED_OFFSET2 | 332 HD Greyscale se Scaler NVM Address (decimal value) | ttings These n & Colu | 064 | see with ADC Combfilte Settings Range (decimal value) |
| ADC_BLU_GAIN Setting ADC_RED_OFFSET2 ADC_GRN_OFFSET2 | 332 HD Greyscale se Scaler NVM Address (decimal value) 351 352 | 154 ttings These n & Colu 01 0292 144 084 084 | 064 082 | 180 - 270 The with ADC Combfilte Settings Range (decimal value) 050 - 090 050 - 090 |
| Setting ADC_RED_OFFSET2 ADC_GRN_OFFSET2 ADC_BLU_OFFSET2 | 332 HD Greyscale se Scaler NVM Address (decimal value) 351 352 353 | 154 ttings These n & Colu 01 0000000000000000000000000000000000 | 064 082 064 | ne with ADC Combfilte Settings Range (decimal value) 050 - 090 050 - 090 |

8.3.5 Sound

- · For NICAM sets: see paragraph 8.3.3.
- For other sets: No adjustments needed for sound.

8.3.6 Options

Options OP1...OP7 in the SAM menu can be used for quickly restoring 64 features or settings of the HERCULES part of the TV set to their orginal default factory values (8 groups of 8 features/settings each). When the decimal value of one option byte OP1...OP7 is changed (see the first table below) then a group of 8 bits, representing 8 HERCULES options or features, is changed as well (see the second table below for a detailed description of the features or settings that are changed). The second table shows which option byte (OP1...OP7) represents which group of 8 option bits. Each bit (0...7) switches a particular HERCULES feature or setting ON or OFF, depending on its value (1 or 0).

It is also possible to change the features or settings mentioned in the second table directly at bit level, by means of the NVM Editor in the SAM menu. In the NVM Editor, first the correct NVM address (ADR) has to be entered, then the correct value (VAL, 1 or 0) for each bit (see second table), and finally the settings have to be stored (STORE). For quickly restoring the HERCULES part of the TV set to its original factory settings, however, it is more convenient to simply enter the default factory settings OP1...OP7 that are given in the first table below. How to do this, is described in the next paragraph.

How to Change an Option Byte

As has been explained above, an Option byte (OP) represents a number of different HERCULES options. Changing these bytes directly makes it possible to set all HERCULES options very fast. All options are controlled via seven option bytes. Select the option byte (OP1.. OP7) with the Menu Up/ Down keys, and enter the new (decimal) value. For the correct Factory Default settings, see the first table below. For more detailed information, see the second table.

Leaving the Option submenu saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched "off" and "on" with the AC power switch (cold start).

Table 8-2 Option codes OP1...OP7

| Option table for quickly restoring the HERCULES b its Factory Default settings | | | | | |
|--|------------------------------------|--------------|--|--|--|
| Model number | 42PF7520D/10 | 42PF5520D/10 | | | |
| OP1 | 152 | 1 52 | | | |
| OP2 | 37 | 101 | | | |
| OP3 | 79 | 15 | | | |
| OP4 | 241 | 241 | | | |
| OP5 | 252 | 252 | | | |
| OP6 | 27 | 27 | | | |
| OP7 | 19 | 19 | | | |
| Options (can be changed only via the SAM menu) | Total deci for each of model | pic>n per | | | |

How to Change Options at Bit Level

If you wish to know which features or settings of the HERCULES are changed via OP1...OP7, or iyou want to change each option or feature bit by bit, use the more detailed table below.

Note: the table below contains only part of the INVM settings that can be changed. A second range of setting and features can be found in Chapter 5 of this manual, in table NVM Default values. The settings mentioned there can only be changed via the NVM editor. For further settings, see also the etable "ADC Gain and Grey scale alignment" elsewhere intrais manual.

| | | Model number | 42PF7520D/10 | 42PF5520D/10 |
|----------------------|--|------------------|----------------|--------------|
| OP1 | Description of feature/option to be switched ON or OFF | - | 4 | - |
| bit 7 (msb) | OP_PHILIPS_TUNER | _ | 1 | 1 |
| bit 6 | OP_FM_RADIO | | 0 | 7 |
| bit 5 | OP_LNA | - | 0 | 1 |
| bit 4 | OP_ATS // for EU | | 1 | 7 |
| bit 3 | OP_ACI | | 1 | 1 |
| bit 2 | OP_UK_PNP | | 0 | (|
| bit 1 | OP_VIRGIN_MODE | | 0 | ٦ |
| bit 0 (Isb) | OP_CHINA | | 0 | |
| | Total DEC Value | 1 | 152 | 15 |
| | Total HEX Value | | 98 | 9 |
| OP2 | | | | |
| bit 7 (msb) | OP_SC | | 0 | 0 |
| bit 6 | OP_IBEX | | 1 | 1 |
| bit 5 | OP_CHANNEL_NAMING | | 1 | П |
| bit 4 | OP_LTI (Lum Transcient Improvmt) | I | 0 | С |
| bit 3 | OP_TILT | | 0 | C |
| bit 2 | OP_FINE_TUNING | | 1 | 1 |
| bit 1 | OP_PIP_PHILIPS_TUNER | | 0 | 0 |
| bit 0 (Isb) | OP_HUE | | 1 | 1 |
| | Total DEC Value | | 01 | 10 |
| 000 | Total HEX Value | | 65 | 6 |
| OP3 | OR FW FINATION | | | \vdash |
| bit 7 (msb) bit 6 | OP_EW_FUNCTION OP_PIXEL_PLUS | | ļ | 0 |
| | | | 1 | 0 |
| bit 5 bit 4 | OP_PIP_SPLITTER // temp | | ٥ | 0 |
| bit 3 | OP_SPLITTER // temp OP_VIRTUAL_DOLBY | _ | 0 | 0 |
| bit 2 | OP_WIDE_SCREEN | | 1 | 1 |
| bit 1 | OP_WSSB | _ | 1 | 1 |
| bit 0 (Isb) | OP_OP_ME5 // OP_ME5 - 5/6 local buttons implementation | | 1 | 1 |
| Dit O (ISD) | OF_OF_MES // OF_MES - 3/6 local outlons implementation Total DEC Value | | 1 | 1 |
| | Total HEX Value | | 79 | 15 |
| OP4 | Total new value | | 4F | OF |
| bit 7 (msb) | OP_LIP_SYNC | - | - | _ |
| bit 6 | OP_H0 | | 1 | 1 |
| bit 5 | OF_ULTRA_BASS | | 1 | 1 |
| bit 4 | OP DELTA VOLUME | | 1 | 7 |
| bit 3 | OP_TAIWAN KOREA | | 0 | 1 |
| bit 2 | OP_VOLUME_LIMITER | | | 0 |
| bit 1 | OP STEREO DBX | | 0 | 0 |
| bit 0 (Isb) | OP_STEREO_NICAM_2CS | | 1 | 1 |
| 0.10 (100) | Total DEC Value | | | 24 |
| | Total HEX Value | | 7 | F1 |
| OP5 | Total TEX Valido | +' | ' - | |
| bit 7 (msb) | OP_AV1 | | 1 | 1 |
| bit 6 | OP_AV2 | | | 1 |
| bit 5 | OP AV3 | | 1 | ' |
| bit 4 | OP_CVI | | . | + |
| bit 3 | OP_SVHS2 | | 4 | _ |
| bit 2 | OP_SVHS3 | | 1 | + |
| bit 1 | OP_HOTEL_MODE | | . | 0 |
| bit 0 (Isb) | OP_SIMPLY_FACTORY=OP_BTSC_AVSTEREO | | 0 1 | -6 |
| , | Total DEC Value | | | 25 |
| | Total HEX Value | | | FC |
| OP6 | | -+ : | - | |
| bit 7 (msb) | OP_PERSONAL_ZAPPING | + | , | 0 |
| bit 6 | OP_SMART_SURF | | 0 | ᢐ |
| bit 5 | OP_FMTRAP | | 6 | - |
| bit 4 | OP_COMBFILTER | | 1 | 1 |
| bit 3 | OP_ACTIVE_CONTROL | | 1 | + |
| bit 2 | OP_VIDEO_TEXT | | . | ᢆ |
| bit 1 | OP_LIGHT_SENSOR | | 1 | Ť |
| bit 0 (Isb) | OP_TWIN_TEXT | | 1 | Ť |
| | Total DEC Value | | 7 | 27 |
| | Total HEX Value | | | 18 |
| OP7 | | - · | -+ | _ |
| bit 7 (msb) | OP_TIME_WIN1 | | 0 | 0 |
| bit 6 | OP_DVB_USB = OP_MALAY | | 5 + | 0 |
| bit 5 | OP_AMBILIGHT | | 5 | ō |
| bit 4 | OP_COLUMBUS | | + | 1 |
| bit 3 | OP_DUMMY6 | | 5 | 0 |
| bit 2 | OP_DUMMY7 | | 5 | 0 |
| bit 1 | OP WEST EU | | 1 | 1 |
| bit 0 (Isb) | OP MULTI STANDARD EUR | | ' | + |
| | | | | |
| | Total DEC Value | 1 | | 19 |

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

- 9.1 Introduction
- 9.2 IBO Zapper Module
- 9.3 Block diagram IBO Zapper Module
- 9.4 PNx83xx MOJO
- 9.5 Front End
- 9.6 Back End
- 9.7 IBOLink Interface
- 9.8 Control Interface
- 9.9 UART Interface
- 9.10 Power Supply IBO Zapper Module
- 9.11 Abbreviation List
- 9.12 IC Data Sheets

9.1 Introduction

The Digital Video Broadcasting (DVB) TV sets/models discussed in this manual are a combination of a standard TV set and an IBO zapper module. For a description of the original TV sets (without an IBO zapper module), see the LC4.9E AA manual, order code 3122 785 15432. The table below shows

the original models of TV sets on which the IBO zapper models are based, together with the various picture qualities globally available (the Crystal Clear version is not applicable to the TV sets discussed in this manual).

Table 9-1 TV Models and Picture Quality

| IBO Zapper Model | Original TV Model | Picture quality |
|------------------|-------------------|-----------------------|
| 42PF7520D/10 | 42PF7320/10 | Pixel Plus |
| 42PF5520D/10 | 42PF5320/10 | Digital Crystal Clear |
| N.a. | N.a. | Crystal Clear |

9.2 IBO Zapper Module

The "IBO Zapper" module is meant to receive, process, and transfer Digital Video Broadcasting-Terrestrial (DVB-T) signals to the internal TV interface for audio, video, and control. The "IBO Zapper" is intended for use in combination with an analogue TV chassis.

9.3 Block diagram IBO Zapper Module

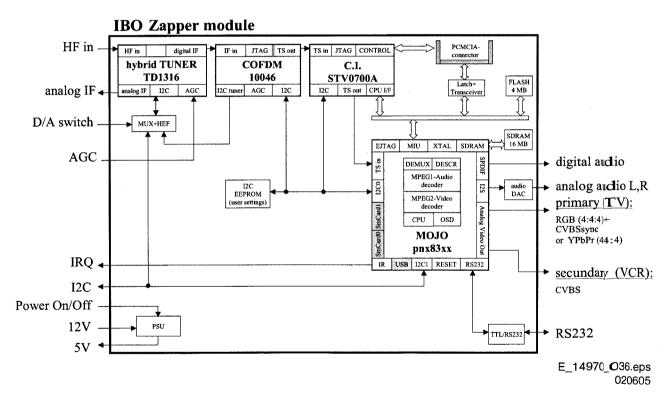


Figure 9-1 Block Diagram IBO zapper module

PNx83xx MOJO

The MOJO is a source decoder chip targeted for very low cost application in integrated digital televisions. The device contains all hardware and software to be able to decode and display MPEG2 transport streams, including:

- Descrambling
- Demultiplexing
- Audio / video decompression
- Video encoding.
- Overlay graphics provisions

Some features of the MOJO are:

- 32-bit PR1910 core operating at 120 MHz.
- 16-bit memory and peripheral interface to connect ROM, NOR Flash and various peripherals.
- Sixteen external interrupt inputs shared with PIO lines.
- Several embedded peripheral units with physical interfaces
 - Two UART (RS-232) data ports
 - Two I2C master / slave transceivers
 - Two smart-card reader interfaces
 - One Integrated Conditional Access Module interface
- Supports parallel and serial transport stream input interfaces

9.5 **Front End**

The front end of the "IBO Zapper" module is almost identical to the "IBO+" module as used in the A10E with the exception that the Transport Streams that come from the COFDM demodulator are now fed through the PCMCIA controller first. The PCMCIA controller receives encrypted Transport Streams from the COFDM demodulator. Via the PCMCIA card, these encrypted Transport Streams are decrypted, and transported to the MOJO.

9.6 **Back End**

The MOJO is the main building block of the back-end of the "IBO Zapper" module. The IC decodes the MPEG-2 stream into analogue video and digital audio.

Transport Stream Input

The Transport Stream input is according to MPEG2 standard. In the "IBO Zapper", only 8-bit parallel is supported. The used TS names are TDA_DATA.

9.6.2 Video Outputs

The MOJO has two analogue video outputs:

- Primary (TV): YUV + RGB
- Secundary (VCR): CVBS

The primary MOJO output is used as input for the TV display and is fed either to the Hercules YUV/RGB input (pins 78/79/ 80), for teletext insertion purposes, or directly to the analogue Scaler input D2/C2/B2. The signal path is as follows: switch 7G09 chooses between the SCART1 input signal and the YUV/RGB output of the MOJO. The signal selected by switch 7G09 is passed on to one group of the inputs of switch 7E00. The other group of inputs of this switch is connected to the three analogue input pins of the DVI-D connector. The output signal of switch 7E00 is passed on to the Hercules input, pins 78/79/80 and to the Scaler input D2/C2/B2 via switch 7E01 in the MUX-SYNC interface. This switch chooses between the MOJO output signal and the Hercules output signal, which is used for SDTV signals (analogue terrestrial TV reception via the analogue receiving part). The Hercules output is not only used for SDTV signals, but also for MOJO output signals that

were first sent to the Hercules input for e.g. teletext reinsertion purposes before they are passed on to the Scaler.

The secundary MOJO output, which delivers CVBS signals, is used for monitoring purposes or for recording via the SCART 2 output of the TV set. The signal path of the secundary MOJO output is as follows:

the CVBS/VCR signal coming from the MOJO is sent to the Hercules video switch input, pin 58, via switch 7G07. The signal then appears on one of the outputs of the Hercules video switch, pin 48, and is passed on via switches 7219 and 7G10 to pin 19 of SCART 2, which is the CVBS/monitor output. For further details, see the manuals of the original TV sets on which the various models of IBO zappers are based.

9.6.3 Audio Outputs

The MOJO has two audio output interfaces:

- SPDIF Out: The SPDIF sound output goes directly to a connector on the back of the module.
- 12S Out: This digital sound output is fed through a DAC and the analogue L/R signals are directely fed into the Hercules.

9.7 **IBOLink Interface**

The IBOLink™ approach is such that the conventional TV microcontroller is re-used when digital functionality is added. In principle, the TV can still operate without the bolt-on module. The IBOLink™ software is added to the TV-set software, and is operating as a software bridge.

9.8 **Control Interface**

The "IBO Zapper" is connected as a slave I2C device. The I2C bus should be +5V tolerable and operating at 100kHz(MAX). The "IBO Zapper" module slave address is 0xE4 (similar to IBO+) but is configurable via IBOLink.

All communication from digital module to Television chassis has to be initiated via an active low hardware interrupt line from the digital module.

9.9 **UART Interface**

The UART interfaces (Universal Asynchronous Receiver And Transmitter) are serial interfaces, which are used to transfer data and commands between two devices.

The "IBO Zapper" system uses an UART interface for serial communication with a pc for:

- Diagnostic SW for Service or Production
- SW uploading for Service or Development

9.10 Power Supply IBO Zapper Module

The "IBO Zapper" module operates from a single 12V supply provided by the TV chassis. All other voltages that the module needs are derived from the +12V. The module has four different physical power states:

- "Off" State.
- "Passive Standby".
- "Active Standby".
- "On" State.

9.10.1 Off State

The set is powered off via the main power switch. The mody le is not powered.

9.10.2 Passive Standby State

The set is in standby mode. The module is in off state.

9.10.3 Active Standby State

The set is in "Semi-Standby" mode. All the circuits in the set, except the audio output and the LCD display are powered up and fully active. The set appears to be in normal standby mode for the customer.

The module is in "On" or "Logical Standby" state.

- On state. In this state the module can perform the following pre-programmed functions:
 - VCR (digital program) records
 - EPG updates
 - Over-the-air software download signaling detection and software downloads
- Logial Standby state. In this state only over-the-air software download signaling detection and software downloads can be performed.

9.10.4 On State

The set is fully functional and the module is powered up. The module is in "On" or "Logical Standby" state.

- On state. In this state all system functionality is available or the module is in software downloading process.
- Logial Standby state. In this state only over-the-air software download signaling detection and software downloads can be performed.

9.11

| Abbreviation Lis | t |
|--------------------------|--|
| 0/6/12 | SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format |
| 1080i | 1080 visible lines, interlaced |
| 1080p | 1080 visible lines, progressive scan |
| 2CS | 2 Carrier Sound (or 2 Channel Stereo) |
| 480i | 480 visible lines, interlaced |
| 480p ACI | 480 visible lines, progressive scan Automatic Channel Installation: |
| AOI | algorithm that installs TV channels |
| | directly from a cable network by |
| | means of a predefined TXT page |
| ADC AFC | Analogue to Digital Converter Automatic Frequency Control; Control |
| AIC | signal used to tune and lock to the |
| | correct frequency |
| AGC | Automatic gain control (feedback) |
| | signal to the tuner. This circuit ensures a constant output amplitude |
| | regardless of the input amplitude |
| AM | Amplitude Modulation; A "data |
| | encoding to a carrier method, such |
| | that the carrier amplitude is proportional to the data value |
| AP or A/P | Asia Pacific |
| AR | Aspect Ratio: 4 by 3 or 16 by 9 |
| ASD | Automatic Standard Detection |
| AV B-SC1-IN | External Audio Video Blue SCART1/EXT1 in |
| B-SC2-IN | Blue SCART2/EXT2in |
| B-TXT | Blue TeleteXT |
| B/G | Monochrome TV system. Sound |
| | carrier distance is 5.5 MHz. B= VHF- band, G= UHF-band |
| BOCMA | Bimos one Chip Mid-end Architecture: |
| C EDONT | video and chroma decoder Chrominance front input |
| C-FRONT CBA | Circuit Board Assembly (also called |
| | PCB or PWB) |
| CL | Constant Level: audio output to connect with an external amplifier |
| CLUT | Colour Look-Up Table |
| COLUMBUS | COLour LUMinance Baseband |
| | Universal Subsystem IC performing noise reduction and 2D/3D comb |
| | filtering |
| ComPair | Computer aided rePair_ A tool for |
| | diagnosing a TV through a PC |
| CSM | controlled interface Customer Service Mod e |
| CVBS | Composite Video and Blanking Signal; |
| | A single video signal hat contains |
| | luminance, colour, and timing information |
| CVBS-EXT | CVBS signal from exernal source |
| | (VCR, VCD, etc.) |
| CVBS-INT CVBS-MON | CVBS signal from interpal Tuner CVBS monitor signal |
| CVBS-MON CVBS-TER-OUT | CVBS TERrestrial OUT put signal |
| DAC | Digital to Analogue Cornverter |
| DBE | Dynamic Bass Enhancement: extra low frequency amplification |
| DFU | Directions For Use: Owner's manual |
| DNR | Dynamic Noise Redut ion / Digital |
| | Noise Reduction; Noise reduction |
| DRAM | feature of the set Dynamic RAM; dynamically refreshed |
| = - = ==== | RAM |
| DSP | Digital Signal Procesir 19 |
| DST | Dealer Service Tool; special remote control designed for ealers to enter |
| | Table and and an |

| e.g. service mode (a DST-emulation is available in ComPair) DTS Digital Triester Systems, A multi- channel surrout Sound format, bright of the company of th | | | | |
|--|---|--|---|--|
| DTS Digital Theatre Systems, A multi- channel surround ecound tomat, similar to Dolty Digital to Delty Digital to Delty Digital to Dolty Digital to Digital Vision Digital Stock D | | e.g. service mode (a DST-emulator is | LED | Light Emitting Diode; A semiconductor |
| DTS Digital Theatre Systems, A multi- channel surround ecound tomat, similar to Dolty Digital to Delty Digital to Delty Digital to Dolty Digital to Digital Vision Digital Stock D | | available in ComPair) | | diode that emits light when a current is |
| channel surround sound format, similar to Doby Digital similar to Doby Digital surround sound format, similar to Doby Digital wides of transmissing global audio and video, but the surround sound of transmissing global audio and video, but the surround sur | DTS | Digital Theatre System; A multi- | | |
| similar to Dolpy Digital Digital Video Francisco, A method of transmitting digital audio and video, based on MPG 27 DVB-T DVB Formstrial; HDV standard for LS DVB-T DVB Formstrial; HDV standard for LS EEPROM Electrically Enasible and Programmable Read Only Memory EPG ELITER STANDARD READ READ READ READ READ READ READ | | channel surround sound format, | LINE-DRIVE | |
| DVB Digital Video Broadcasts A method of transmitting digital aution and video, based on MPEG2 DVB-T DVB Terestials HDTV standard for the EU DVB Terestials | | · · · · · · · · · · · · · · · · · · · | | , , |
| transmitting digital aution and video, based on MPEG2 DVB-T DVB-Torestrial; HDTV standard for the EU LVS LVDS Low Videop Differential Signalling, the EPPROM Digital Vertails Disc Expense of the EU LVDS Low Videop Differential Signalling, data transmission system for high speed and fow SMI communication. EPPROM Electronic Program Guite: system used by broudcasters to transmit TV guide information (= NexT-View) EU Europe EVT Extramal (source), entering the set by guide information (= NexT-View) EXT Extramal (source), entering the set by Europe EXT Extramal (source), entering the set by SOART or by cinches (gates) FBL. Fast Blashing, DC Signal from the right side of the screen to the left side. The video level is troughly down below the black video level whom the video sound source that the video sound when it is returning from the right side of the screen to the left side. The video level is throughly down below the black video level in FBL-SC1-IN Fast blanking signal for SCART1 in Fast blanking signal for SCART1 in Fast blanking gignal for SCART2 in | DVB | , , | L/L' | • |
| DVB-T ONE-Treerenity HDVS standard for the EU DVB INTERNATION (A proposable) and the EU DVB INTERNATION (A proposable) and the EU Digital Wreatile Disc EEPROM Electrically Ensable and Secretary (A proposable) and the EU Digital Wreatile Disc EEPROM Electrically Ensable and Secretary (A proposable) and the EU Digital Wreatile Disc EEPROM Electrically Ensable and Secretary (A proposable) and the EU Digital Wreatile Disc EEPROM Electrically Ensables and Secretary (A proposable) and the EU Digital Wreatile Disc Europe (A proposable) and the EU Digital Wreatile Disc Europe (A proposable) and the EU Digital Wreatile Disc Europe (A proposable) and the EU Digital Wreatile Disc Europe (A proposable) accompanying R68 signals. To blank the Video separation (A proposable) accompanying R68 signals in Secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 signals in SecRAT2 in F68 signals in F68 secretary (A proposable) accompanying R68 signals in SecRAT2 in F68 signals in F68 signals in SecRAT2 in F68 signals in F68 sig | | | | • |
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| the EU DVD Digital Versatile Disc EEFROM Electrically Erasable and Programmable Read Only Memory EPG Electronic Program Guide: system used by troadcasters to transmit TV guide information (= NexTView) EU EU EXT EV EXT EV EXT EV EXT EV EXT EV EXT EV EXT EXT EV EXT EXT EV EXT EX | DVR-T | | I S | the state of the s |
| EBEPROM Electrically Ereasable and Electrically Ereasable and Electrically Ereasable and Electronic Ereasable Ereasable Electronic Programmable Read Only Memory MrN Monochrome TV system. Sound Monochrome TV system Sol Item (Standard Sound Sound-counter Field Sol Item (Standard Sound Sound-counter Field Sol Item (Standard Sound Sound-counter Field Sol Item (Sound-Counter Field Sol Item (Sound-Count | DVD 1 | | | |
| EEPFOM Electronic Program Builder and programmable Read Only Memory M/N Monochrome TV system. Sound Carrier distance is 4.5 MHz. Me-52 lines 6 50 Hz guide information (e. hex Yulwi) MOSFET Metal Oxide Semiconductor Field Electronic Program Guide: system Used by broadcasters to transmit TV guide information (e. hex Yulwi) MOSFET Metal Oxide Semiconductor Field Electronic Program Guide: system MOSFET Metal Oxide Semiconductor Field Electronic Program Guide: system MOSFET Metal Oxide Semiconductor Field Moster Transistor | DVD | | 2400 | |
| PFOGRammable Read Only Memory Bed Electronic Program Guide: system used by broadcasters to transmit TV guide information (e Next/New) EU Europe EXT Extremal (source), entering the set by SCART or by cinches (jacks) FBL FB | | <u> </u> | | |
| EPG used by broadcasters to transmit TV guide information (e NexTView) EU EU EU EXT EXT EXTernal (source), entering the set by SCRAT for by cinches (gacks) FBL Fast Blanking; DG signal accompanying RGB signales. To blank the video signal when it is returning from the grift side of the screen to the interpretation of the section of the | EEFHOW | • | MA/NI | |
| used by broadcasters to transmit TV guide information (= Nat7tlws) (a guide) (a g | EDO | | IVI/IN | |
| BU Europe EXT EXTernal (source), entering the set by SCART to by cinches (lacks) FBL Fast Blanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level if side. The video level is brought down below the black video level field Memory. A memory chip that is capable of storing one or more TV picture fields Ffrequency Modulation; A technique that sends data as frequency variations of a carrier signal A and 87.5 - 108 MHz FRONT-C FFRONT-C FRONT-C FRONT | EPG | • , | | |
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| FEIL Fast Blanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level FEIL-SC1-IN Fast blanking signal for SCART2 in | EXT | | MPEG | |
| accomparying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level of the video level is brought of the video level of the | | | | |
| the video signal when it is returning from the right side of the screen to the part of the right side of the screen to the scree | FBL | | | |
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| left side. The video level is brought down below the black video level NC NC Not Connected FBL-SC2-IN Fast blanking signal for SCART2 in FBL-SC2-IN Fast blanking signal for SCART2 in FBL-TXT Fast Blanking signal for SCART2 in FBL-TXT Fast Blanking signal for SCART2 in Fast Blanking signal for signal FMR Field Memory. A nemony chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal FMR Fadio receiver that can receive the FM FMR | | the video signal when it is returning | MSP | Multi-standard Sound Processor: ITT |
| down below the black video level NC Not Connected | | from the right side of the screen to the | | sound decoder |
| FBL-SC1-IN Fast blanking signal for SCART1 in FBL-SC2-IN Fast blanking signal for SCART2 in FBL-SC2-IN Fast blanking signal for SCART2 in FBL-TXT Fast Blanking Teletat Sauch system, mainly used in Europe National Television Standard Committee, Colour system used in Europe National Television Standard Committee, Colour system used and as frequency variations of a carrier signal FBL-TXT Field Memory; A memory chip that is capable of storing one or more TV picture fields of state data as frequency variations of a carrier signal FBL-TXT FRO Fame flate Converter NVM FRO No. | | left side. The video level is brought | MUTE | MUTE Line |
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| FBL-TXT Fast blanking signal for SCART2 in | FBL-SC1-IN | | | |
| FBL TXT Field Memony, A memory chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal Radio-receiver that can receive the FM Band 87.5 - 108 MHz FRO RT Band 87.5 - 108 MHz FRONT-C Frame Rate Converter Pront input chrominance (SVHS) FRONT-DETECT Control line for detection of headphone insertion, Service Mode jumper, power failure detection FRONT-Y_CVBS (SVHS) FRONT-Y | | <u> </u> | , | , , |
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| A technique that sends data as frequency Modulation; A technique that sends data as frequency variations of a carrier signal frequency (this is a VCR norm, it is not transmitted off-air) from variations of the vari | 1 101 | The state of the s | 14130 | |
| A technique that sends data as frequency variations of a carrier signal frequency variations of a carrier signal and the property of the prope | | | | • |
| Frequency variations of a carrier signal FMR Radio receiver that can receive the FM Band 87.5 - 108 MHz Hz A 4.33619 MHz (this is a VCR norm), it is not transmitted off-air) FRONT-C From Rate Converter NVM Non Volatile Memory; IC containing data value as alignment values, preset stations and such as alignment values, preset stations of headphone insertion, Service Mode jumper, power failure detection of headphone insertion, Service Mode jumper, power failure detection ON/OFF LED On/Off control signal for the L | | · · | | · · · · · · · · · · · · · · · · · · · |
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| FRC Fram Rate Converter FRONT-C Front input chrominance (SVHS) FRONT-DETECT PRONT-DETECT FRONT-DETECT FRONT-D | | · · · | | |
| FRONT-C FRONT-DETECT Control line for detection of headphone insertion, Service Mode jumper, power failure detection FRONT-Y_CVBS Front input luminance or CVBS (SVHS) Front input luminance or CVBS (SVHS) Front input luminance or CVBS (SVHS) PAL Phase Alternating Line, Colour system used mainly in Western Europe (colour carrier = 4.435619 MHz) and G-SC2-IN G-SC2-IN Green SCART2/EXT2 in used mainly in Western Europe (colour carrier = 4.435619 MHz) and G-SC2-IN H H H H Sync to the module H H H Sync to the module H H H H H H-Sync to the module H H H H HeadPhone I Monochrome TV system. Sound PIC Carrier distance is 6.0 MHz. VHF- and UHF-band PC Integrated IC bus Integrated IC bus Integrated IC Sound bus IF Integrated IC Sound bus IF Integrated IC Sound bus IF Integrated Circuit Integrated IC Sound bus IF Integrated Circuit Integrated IC Sound bus Integrated Circuit Integrated Circuit Integrated Frequency Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line fileker. Infra Red IR Interpreted IC Sound by the customer and and stored in RAM or in the NYM. They are called at start-up of the set to configure it according to the customer's preferences INFROME ARM Service Monor Access Memory IR LATAM LATIA MHerica LATIA MHerica LATIA MERICA LIQUID Crystal Display LOS SandCastles: two-level pulse derived II SAN SAM Service Alignment Mode SCA SandCastles: two-level pulse derived II SAN SAM Service Alignment Mode SCA SandCastles: two-level pulse derived II | FMR | | | (this is a VCR norm, it is not |
| FRONT-C FRONT-DETECT Control line for detection of headphone insertion, Service Mode jumper, power failure detection FRONT-Y_CVBS FRONT | | Band 87.5 - 108 MHz | | transmitted off-air) |
| FRONT-DETECT Control line for detection of headphone insertion, Service Mode jumper, power failure detection FRONT-Y_CVBS (SVHS) Front input luminance or CVBS (SVHS) Green SCART1/EXT1 in Green SCART1/EXT2 in Green SCART2/EXT2 in G-SC2-IN Green SCART2/EXT2 in G-TXT Green teletext H H H Sync to the module Horizontal Acquisition; horizontal sync pulse HD High Definition HP HeadPhone I Monochrome TV system, Sound carrier of stance is 6.0 MHz. VHF- and UHF- band UHF- band UHF- band Integrated IC Sound bus IC Integrated Circuit Intermediate Frequency Interfaced Scan mode where two fields are used to form one frame, Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IRQ Interrupt ReQuest Lat Status LATIA M LATIN AMerica LCO4 LCD Liquid Crystal Display CCC Convolvement Augustion for LCD TV 2004 project LCD Liquid Crystal Display SAM Service Alignment Mode SC7 SC8 SandCastle: two-level pulse derive III SC8 Sc7 Sc7 Sc8 Sc7 Sc7 Sc8 Sc7 | FRC | Frame Rate Converter | NVM | Non Volatile Memory; IC containing |
| headphone insertion, Service Mode Jumper, power failure detection ONOFF LED On/Off control signal for the LED On/OFF Control injurt luminance or CVBS (SVHS) PAL Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.433619 MHz) and G-TXT Green SCART2/EXT2 in Green SCART2/EXT2 in Green teletext South America (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.578612 MHz and PAL N = 3.582056 MHz) H | FRONT-C | Front input chrominance (SVHS) | | data such as alignment values, preset |
| FRONT-Y_CVBS Front input luminance or CVBS (SVHS) PAL Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.43619 MHz) and G-TXT Green teletext H H H_sync to the module Haily Definition PCB PC Personal Computer PCB Printed Circuit Board (or PWB) HP HeadPhone PIG PICTURE In Picture in Graphic UHF-band PLC Integrated IC bous PSS Integrated IC Sound bus IC Interfaced Integrated Circuit Integrated Ci | FRONT-DETECT | Control line for detection of | | stations |
| FRONT-Y_CVBS Front input luminance or CVBS (SVHS) PAL Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.43619 MHz) and G-TXT Green teletext H H H_sync to the module Haily Definition PCB PC Personal Computer PCB Printed Circuit Board (or PWB) HP HeadPhone PIG PICTURE In Picture in Graphic UHF-band PLC Integrated IC bous PSS Integrated IC Sound bus IC Interfaced Integrated Circuit Integrated Ci | | headphone insertion, Service Mode | O/C | Open Circuit |
| FRONT-Y_CVBS GNHS) GSC1-IN Green SCART1/EXT1 in G-SC2-IN Green SCART2/EXT2 in G-SC2-IN Green SCART2/EXT2 in G-TXT Green teletext H H_sync to the module H-sync to the module HORD High Definition HIP HeadPhone II Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band IFC Integrated IC bus IFS Integrated Circuit IFI Intermediate Frequency Interlaced Scan mode where two fields are used to fines. The fields are written in "pairs", causing line flicker. IRA | | · · · · · · · · · · · · · · · · · · · | ON/OFF LED | • |
| (SVHS) Green SCARTI/EXT1 in Green SCARTI/EXT2 in Green SCARTI/EXT2 in (colour carrier = 4.433619 MHz) and G-SC2-IN Green teletext (colour carrier = 4.433619 MHz) and G-TXT Green teletext (colour carrier = 4.433619 MHz) and G-TXT Green teletext (colour carrier = 4.433619 MHz) and G-TXT Green teletext (colour carrier PAL M = H, sync to the module (colour carrier PAL M = H) H, sync to the module (colour carrier PAL M = H) H, sync to the module (colour carrier = 4.433619 MHz) and South America (colour carrier = 4.433619 MHz) and G-SC4 AM Hz) (colour carrier = 4.433619 MHz) and G-SC4 AM Hz) (colour carrier = 4.433619 MHz) and G-SC4 AM Hz) (colour carrier = 4.433619 MHz) and G-SC4 AM Hz) (colour carrier = 4.433619 MHz) and G-SC4 AM Hz) (colour carrier distance is 6.0 MHz. VHF - AM G-SC4 AM Hz) (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and UHF- band (colour carrier distance is 6.0 MHz. VHF- and (colour carrier distance is 6.0 MHz. VH | FRONT-Y CVBS | | | <u> </u> |
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| G-SC2-IN Green SCART2/EXT2 in (colour carrier = 4.433619 MHz) and G-TXT Green teletext South America (colour carrier = 4.433619 MHz) and G-TXT Green teletext South America (colour carrier PAL M = H | G-SC1-IN | · · · | | - |
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| HA Horizontal Acquisition; horizontal sync pulse PC Personal Computer PHD High Definition PCB Printed Circuit Board (or PWB) HP HeadPhone PIG Picture in Graphic Picture in Graphic Picture in Graphic Picture distance is 6.0 MHz. VHF- and UHF- band PLL Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency Integrated IC Sound bus Integrated IC Sound bus Integrated Circuit Progressive Scan Integrated Circuit Progressive Scan Mark Progressive Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. PWB Printed Wining Board (also called PCB infer Red RC Remote Control transmitter Infra Red RC Remote Control transmitter Red RC Remote Control transmitter Red RG Remote Control transmitter Status Philips chassis name for LCD TV 2004 project ROM Red Only Memory Liquid Crystal Display SAM Service Alignment Mode SC Sand Castle: two-level pulse derived in two-level pulse de | | | | · · |
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| HD High Definition PCB Printed Circuit Board (or PWB) HP HeadPhone PIG Picture In Graphic I Monochrome TV system. Sound PIP Picture In Graphic UHF-band PLL Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency IC Integrated IC Sound bus IF Internediate Frequency Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IRQ Interrupt ReQuest Last Status The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red Algorithm Remote Control transmit sync, and Vertical Picture Algorithm. In Iquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derived. | HA | · · · · · · · · · · · · · · · · · · · | 20 | • |
| HP HeadPhone PIG Picture In Graphic PIP Picture In Graphic Picture In Picture Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency Progressive Scan Scan mode where all scan lines are displayed in one frame at the same Internaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. PWB Pinted Wiring Board (also called PCB or CBA) Printed Wiring | | • | | • |
| Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band PLL Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency Integrated IC Sound bus | | | | · · · · · · · · · · · · · · · · · · · |
| carrier distance is 6.0 MHz. VHF- and UHF-band UHF-band Integrated IC bus Integrated IC Sound bus IC Integrated Circuit IF Intermediate Frequency Interlaced Interlac | | | | Picture In Graphic |
| UHF-band Integrated IC bus Integrated IC Sound bus IC Integrated Circuit IF Intermediate Frequency Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IRQ Interrupt ReQuest Last Status The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica LCD UHF-band Example, in FST tuning systems. The customer can directly provide the customer can directly provide the customer can directly provide the desired frequency IP customer and event and sored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica LCD UHF-band LCD UHF-band Printed Countrol transmiter PWB Printed Wiring Board (also called PCB or CBA) Printed Wiring Board (also called PCB or CBA) RAM RAM RAM RAM RAM RAM RAM R | I | Monochrome TV system. Sound | | Picture In Picture |
| Integrated IC bus Integrated IC Sound bus IC Integrated Circuit IF Intermediate Frequency Interlaced Interlaced Interlaced Internation in Frame in Internation in Internati | | carrier distance is 6.0 MHz. VHF- and | PLL | Phase Locked Loop. Used, for |
| Integrated IC Sound bus IC Integrated Circuit IF Intermediate Frequency Interlaced Intermediate Frequency Interlaced Intermediate Frequency Interlaced Internation on Frame Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IR Infra Red IRQ Interrupt ReQuest Last Status IT he settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATIN AMerica LCO4 Philips chassis name for LCD TV 2004 project LCD Liquid Crystal Display Mesired frequency Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. Scan mode where all scan lines are solution. Scan mode where all scan lines are solution. Scan mode where all scan lines are solution. Scan mo | • | UHF-band | | example, in FST tuning systems. The |
| IC Integrated Circuit Intermediate Frequency Interlaced Intermediate Frequency Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. Infra Red Interrupt ReQuest Intervented RCS or 6 Remote Control transmitter IRQ Interrupt ReQuest RCS or 6 Remote Control system 5 or 6, the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATIA Merica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM SCC SandCastle: two-level pulse derived. | | Integrated IC bus | | customer can directly provide the |
| IC Integrated Circuit Intermediate Frequency Interlaced Intermediate Frequency Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. Infra Red Interrupt ReQuest Intervented RCS or 6 Remote Control transmitter IRQ Interrupt ReQuest RCS or 6 Remote Control system 5 or 6, the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATIA Merica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM SCC SandCastle: two-level pulse derived. | l ² S | Integrated IC Sound bus | | desired frequency |
| Internaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IR Infra Red RC Remote Control transmitter Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATIN AMerica RGM RGM Red Only Memory LCD Liquid Crystal Display Interrupt Requency time, creating a double vertical PCB without printed Wiring Board (also called PCB or CBA) PAM Random Access Memory Remote Control transmitter Remote Control transmitter Remote Control transmitter Remote Control system 5 or 6, the signal from the remote control receiver or the printed wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA) Remote Control PCB Remote Control virinted wiring Board (also called PCB or CBA | IC | Integrated Circuit | Progressive Scan | Scan mode where all scan lines are |
| Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IR Interrupt ReQuest RC5 or 6 Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM SCC SandCastle: two-level pulse derived | | - | .5 | |
| to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IR Infra Red RC Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Last Status The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start- up of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red Only Memory LCD Liquid Crystal Display Tesolution. PWB Printed Wiring Board (also called PCB or CBA) RAM Random Access Memory Remote Control transmitter RC5 or 6 Remote Control transmitter RC5 or 6 Remote Control system 5 or 6, the signal from the remote control receiver RGB Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours mixing levels of R, G, and B, all colours (Y/C) are reproduced RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync Project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derived | | | | |
| half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. IR Infra Red Interrupt ReQuest RC5 or 6 Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the signal from the remote control receiver customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | | | - |
| lines. The fields are written in "pairs", causing line flicker. IR Infra Red Interrupt ReQuest RC5 or 6 Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the signal from the remote control receiver customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | | DW/B | |
| causing line flicker. IR Infra Red Interrupt ReQuest RC5 or 6 Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the signal from the remote control receiver customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | | FWD | - · · · · · · · · · · · · · · · · · · · |
| IR Infra Red Interrupt ReQuest RC5 or 6 Remote Control transmitter IRQ Interrupt ReQuest RC5 or 6 Remote Control system 5 or 6, the signal from the remote control receiver customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, and Blue colour space; (Y/C) are reproduced LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | · · · · · · · · · · · · · · · · · · · | DAM | • |
| IRQ Interrupt ReQuest The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, and Blue colour space; (Y/C) are reproduced LCO4 Philips chassis name for LCD TV 2004 project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | - | | • |
| Last Status The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences LATAM LATin AMerica LC04 Philips chassis name for LCD TV 2004 project LCD Liquid Crystal Display The primary colour signals for TV. By mixing levels of R, G, and B, all colours mixing levels of R, G, and B, all colours (Y/C) are reproduced RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync ROM Read Only Memory SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | | | |
| customer and read and stored in RAM or in the NVM. They are called at start- up of the set to configure it according to the customer's preferences LATAM LATin AMerica RGBHV Red, Green, and Blue colour spaces (Y/C) are reproduced LCO4 Philips chassis name for LCD TV 2004 project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | = | • | HC5 or 6 | - |
| or in the NVM. They are called at start- up of the set to configure it according to the customer's preferences LATAM LATin AMerica Philips chassis name for LCD TV 2004 project RCD LCD Liquid Crystal Display Red en Polymany colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced Red, Green, Blue, Horizontal sync, and Vertical sync RCM Read Only Memory Service Alignment Mode SC SandCastle: two-level pulse derives | Last Status | | | |
| up of the set to configure it according to the customer's preferences (Y/C) are reproduced LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derive | | customer and read and stored in RAM | RGB | Red, Green, and Blue colour space; |
| up of the set to configure it according to the customer's preferences (Y/C) are reproduced LATAM LATin AMerica RGBHV Red, Green, Blue, Horizontal sync, and Vertical sync and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | or in the NVM. They are called at start- | | The primary colour signals for TV. By |
| to the customer's preferences LATAM LATin AMerica Philips chassis name for LCD TV 2004 project RCD ROM Red, Green, Blue, Horizontal sync, and Vertical sync PROM Read Only Memory SAM Service Alignment Mode SC SandCastle: two-level pulse derives | | up of the set to configure it according | | |
| LATAM LATin AMerica Philips chassis name for LCD TV 2004 project RCD ROM Red, Green, Blue, Horizontal sync, and Vertical sync ROM Read Only Memory SAM Service Alignment Mode SC SandCastle: two-level pulse derive | | · · | | |
| LC04 Philips chassis name for LCD TV 2004 and Vertical sync project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derived | LATAM | • | RGBHV | |
| project ROM Read Only Memory LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derived | | | | |
| LCD Liquid Crystal Display SAM Service Alignment Mode SC SandCastle: two-level pulse derived | | | BOM | • |
| SC SandCastle: two-level pulse derive | LCD | | | |
| | | and or your piopicy | | |
| | | | | from sync signals |

from sync signals

LC4.9E AB

| SC-IN | SCART in |
|--------|---------------|
| SC-OUT | SCART out |
| S/C | Short Circuit |

Syndicat des Constructeurs **SCART** d'Appareils Radiorécepteurs et

Téléviseurs; This is a 21-pin connector used in EU, that carries various audio, video, and control signals (it is also

called Péritel connector) Serial CLock Signal on I2C bus

SCL Standard Definition SD

Serial DAta Signal on I²C bus SDA

SDRAM Synchronous DRAM

SÉquence Couleur Avec Mémoire: **SECAM**

Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz Sound Intermediate Frequency

SIF **SMPS** Switched Mode Power Supply SouND

SND SNDL-SC1-IN Sound left SCART1 in SNDL-SC1-OUT Sound left SCART1 out SNDL-SC2-IN Sound left SCART2 in Sound left SCART2 out SNDL-SC2-OUT Sound right SCART1 in SNDR-SC1-IN Sound right SCART1 out SNDR-SC1-OUT SNDR-SC2-IN Sound right SCART2 out SNDR-SC2-OUT Sound right SCART2 out Self Oscillating Power Supply SOPS

S/PDIF Sony Philips Digital InterFace; This is

a consumer interface used to transfer

digital audio

Static RAM SRAM **STBY STandBY**

SVHS Super Video Home System SW Software or Subwoofer or Switch THD Total Harmonic Distortion

Teletext; TXT is a digital addition to TXT

analogue TV signals that contain textual and graphical information (25

rows x 40 columns). The information is transmitted within the first 25 lines during the Vertical Blank Interval (VBI)

Microprocessor uР ٧A Vertical Acquisition

VL Variable Level out: processed audio

output towards external amplifier

VCR Video Cassette Recorder

Video Graphics Array; 640x480 (4:3) **VGA**

WD Watch Dog

WYSIWYR What You See Is What You Record:

record selection that follows main

picture and sound

XTAL Quartz crystal Luminance signal

Y/C Y consists of luminance signal,

blanking level and sync; C consists of

chroma (colour) signal

YPbPr This is a scaled version of the YUV

colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV

YUV Colour space used by the NTSC and

PAL video systems. Y is the luminance and U/V are the colour difference

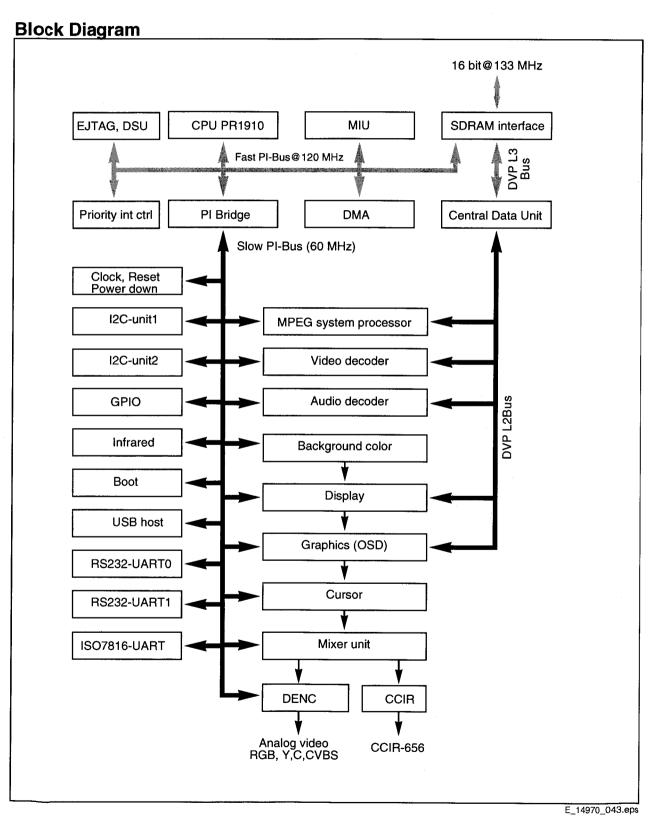
signals

9.12 IC Data Sheets

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

LC4.9E AB

9.12.1 Diagram K1, PNx83xx (IC7100)



9.12.2 Diagram K6, TDA10046 (IC7600)

Block Diagram

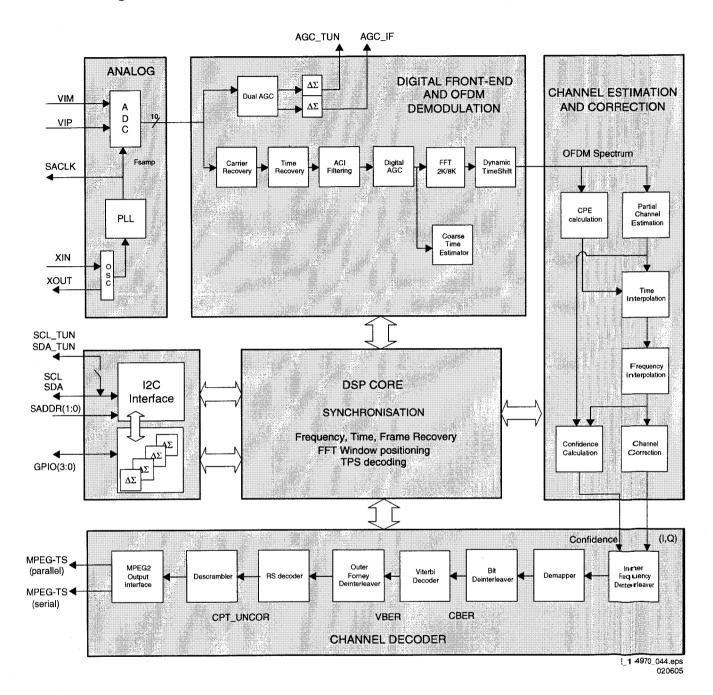


Figure 9-3 Internal blockdiagram TDA10046

10. Spare Parts List

| Set Le | vel | | 2032 | | 22nF 10% 50V 0603 | 2385 | | 10nF 10% 16V 0402 |
|--------------------------|----------------------------------|--|--------------|----------------------------------|--|--------------|----------------------------------|--|
| | | | 2033 2034 | 4822 126 14525 | 100nF 20% 50V 0603 47pF 5% 1kV | 2386 2387 | | 10nF 10% 16V 0402 100μF 20% 16V |
| Various | | | 2035 | | 1nF 10% 50V 0402 | 2388 | 2020 552 96628 | 10nF 10% 16V 0402 |
| 1004 | 8204 000 78181 | PDP S42SD-YD07 | 2036 2037 | | 22nF 10% 50V 0603 | 2397 | | 100μF 20% 16V |
| 1004▲ | | PDP PDP42V7A062 | 2037 | 4822 126 14525 2020 552 96618 | 1nF 10% 50V 0402 | 2398 2400 | 4822 124 23002 2222 338 22474 | 10μF 16V 470nF 20% 275V |
| 1012 | | LED panel LC04SD2 | 2039 | | 2.2nF 10% 50V 0402 | 2401 | | 470nF 20% 275V |
| 8102 8102 | | Cable 7p/400/7p Cable 7P/1000/7P | 2040 | | 47pF 1% 50V 0402 | 2404 | 4822 126 14525 | |
| 8103 | | Cable 10p/280/10p | 2041 2042 | | 100pF 5% 50V 0402 330pF 5% 50V 0402 | 2405 2406 | 2252 811 95017 4822 126 14525 | 470pF 10% 250V |
| 8103 | | Cable 10P/220/10P | 2043 | 4822 124 12084 | | 2407 | | 470pF 10% 250V |
| 8120 ▲ 8146 | | Cable 6P/680/6P Cable 11P/220/11P | 2044 | 2238 930 11541 | | 2465 | 4822 124 12095 | 100µF 20% 16V |
| 8150 | | Cable 31P/300/31P | 2045 2046 | 2238 930 11541 2252 568 08305 | • | 2502 2503 | | 100pF 5% 50V 0402 |
| 8150 | 3104 311 10493 | Cable 31P/220/31P | 2040 | | 100nF 20% 50V 0603 | 2504 | | 47μF 400V 20% 1nF 10% 50V 0402 |
| 8152▲ | | Cable 9P/680/9P | 2048 | 2020 552 96683 | | 2507 | | 100pF 5% 50V 0402 |
| 8900▲ | 310431107911 | Cable ring/180/ring | 2049 2050 | | 100pF 1% 50V 0603 | 2508 | 4822 124 12095 | |
| | | | 2050 | 4822 122 33177 | 22nF 10% 50V 0603 10nF 20% 50V | 2509 2510 | | 100pF 5% 50V 0402 1000µF 20% 16V |
| Set Lev | vel | | 2052 | | 1000μF 20% 35V | 2511 | | 100nF 20% 50V 0603 |
| | | | 2053 | 2022 031 00308 | | 2512 | | 100nF 20% 50V 0603 |
| Various | | | 2054 2055 | | 220pF 5% 50V 0402 1.5nF 10% 50V 0402 | 2513 2532 | 4822 124 12095 | 100nF 10% 50V 0805 |
| 1014 | 3104 328 39561 | Side control LC04SD2 | 2056 | | 220pF 5% 50V 0402 | 2533 | 4822 124 12095 | |
| 1116 | | Side I/O Assy LC04SD2 | 2057 | | 1.5nF 10% 50V 0402 | 2534 | 2022 552 05679 | 1μF 10% 16V 0805 |
| 8101 | | Cable 3P/1K7/3P | 2058 2059 | 4822 124 41828 2238 586 59812 | 1μF 20% 250V 100nF 20% 50V 0603 | 2540 2541 | 4822 124 12095 | |
| 8136 8735 | | Cable 11P/1K/11P Cable 2P3/1400/POSI | 2060 | 2020 552 96683 | | 2541 | 4822 124 12095 2238 586 59812 | 100μF 20% 16V 100nF 20% 50V 0603 |
| 8736 | | Cable 2P3/1000/POSI | 2061 | 2238 586 59812 | 100nF 20% 50V 0603 | 2600 | 4822 122 33799 | 1nF 10% 1kV |
| | | | 2070 | | 1nF 10% 50V 0402 1nF 10% 50V 0402 | 2601 | 4822 122 33799 | |
| | | | 2071 2090 | 2020 552 96618 | | 2602 2603 | 2020 552 96623 2222 383 90136 | 2.2nF 10% 50V 0402 1uF 5% 400V |
| -010 | | | 2112 | | 1nF 10% 50V 0402 | 2605 | 2222 383 90136 | |
| 5213 5214 | | Loudspeaker 8Ω 10W Loudspeaker 8Ω 10W | 2113 | 4822 124 12379 | | 2608 | | 1nF 10% 50V 0402 |
| OLIT | 2441 237 30020 | Loudspeaker 012 1044 | 2114 2118 | 2020 552 96683 4822 126 13449 | | 2610 2611 | 4822 121 70584 4822 126 12263 | |
| | 0 | FA3 | 2121 | | 2200μF 20% 100V | 2612 | | 1nF 10% 50V 0402 |
| Power | Supply Unit | [A] | 2122 | 4822 121 51319 | | 2614 | 2020 552 96623 | 2.2nF 10% 50V 0402 |
| 1/ | | | 2123 2126 | | 3.3nF 5% 50V 0402 100nF 20% 50V 0603 | 2616 2617 | | 220μF 20% 400V 220μF 20% 400V |
| Various | | | 2133 | 4822 124 81151 | | 2640 | 3198 035 04710 | |
| 1002 | 4822 267 10618 | Connector 7p | 2203 | 2238 586 59812 | 100nF 20% 50V 0603 | 2642 | | 1nF 10% 50V 0402 |
| 1004 | 2422 086 00676 | | 2205 2210 | 2020 021 91729 4822 124 80151 | | 2651 | | 10nF 10% 16V 0402 |
| 1082 1083 | | Fuse 2.5A T 250V Fuse 2.5A T 250V | 2211 | 3198 035 04710 | | 2653 2654 | 4822 124 80151 | 680pF 5% 50V 0402 47uF 16V |
| 1084 | 2422 086 10849 | | 2212 | 2020 552 96326 | 220nF 10% 16V | 2655 | | 1μF 10% 16V 0805 |
| 1110 | 2422 086 00678 | Fuse 5A T 250V | 2213 2214 | | 3.3nF 5% 50V 0402 3.3nF 5% 50V 0402 | 2656 | | 100nF 10% 50V 0805 |
| 1200 1260 | 2422 086 00676 4822 252 51186 | | 2215 | 3198 035 03320 | | 2660 2661 | 4822 126 13881 2020 552 96618 | 1nF 10% 50V 0402 |
| 1400 | 4822 070 36302 | | 2218 | 2222 375 90141 | | 2662 | | 1000μF 20% 25V |
| 1402 | 4822 252 60151 | Surge protect | 2222 | | 100pF 5% 50V 0402 | 2663 | 4822 121 51319 | |
| 1450 1460 | 4822 280 10382 4822 280 10382 | | 2223 2225 | | 100pF 5% 50V 0402 2200μF 20% 25V | 2664 2665 | 4822 124 40255 4822 126 13881 | |
| 1M03 | | Connector 10p m | 2226 | 2238 586 59812 | 100nF 20% 50V 0603 | 2666 | | 4.7nF 10% 50V 04/2 |
| 1M05 | 2422 025 16374 | | 2227 | | 100pF 5% 50V 0402 | 2670 | 2238 586 59812 | 100nF 20% 50V 06)3 |
| 1M10 | 2422 025 09406 | | 2229 2230 | 2020 021 00036 2020 021 00036 | | 2671 2672 | | 100nF 20% 50V 0603 100nF 10% 50V 0805 |
| 1M46 | 2422 025 10655 | Connector 11p m | 2231 | 4822 124 80151 | | 2673 | 2020 558 90621 | |
| <u> </u> | | | 2232 | | 100pF 5% 50V 0402 | 2674 | 2020 558 90621 | |
| | | | 2234 2236 | 4822 124 23002 | 1μF 10% 16V 0805 | 2675 2676 | 2020 558 90621 2020 558 90621 | |
| 2000 | | 470pF 10% 250V | 2237 | 4822 124 23002 | | 2677 | | 2.2nF 10% 50V 0402 |
| 2001 | | 470nF 20% 275V | 2263 | | 2.7nF 5% 50V 0805 | 2690 | | 1nF 10% 50V 0402 |
| 2005 2006 | | 100pF 1% 50V 0603 1nF 10% 50V 0402 | 2264 2265 | | 470nF 10% 16V 0805 330pF 5% 50V 0402 | | | |
| 2007 | 2238 586 59812 | 100nF 20% 50V 0603 | 2266 | 2020 021 91729 | | ~ W ~ | | * |
| 2008 | | 10nF 10% 50V 0603 | 2267 | 5322 122 32531 | 100pF 5% 50V | 3001 | 4822 051 30471 | 470 5% 0 060M |
| 2010 2011 | 5322 126 11583 2222 375 24153 | 10nF 10% 50V 0603 | 2268 | 2020 552 96683 | | 3002 | 4822 051 30471 | |
| 2012 | 4822 126 11254 | | 2269 2270 | 4822 124 40433 | 2200μF 20% 16V 47μF 20% 25V | 3003 | 4822 117 11297 | 100kΩ 5% 0.1 W |
| 2013 | 4822 126 11254 | 330pF 10% 2kV | 2273 | 2238 586 59812 | 100nF 20% 50V 0603 | 3004 | | 15kΩ 5% 0.01W 04)2 |
| 2014 2015 | 4822 126 13862 | 1.5nF 10% 2kV 10nF 10% 50V 0603 | 2274 | | 10nF 10% 16V 0402 | 3005 3006 | 3198 031 02730 4822 117 13606 | 27KΩ 5% 0402 10kΩ 5% 0.01W 04 2 |
| 2017 | 2222 375 24153 | | 2290 2291 | 3198 035 04710 | 10nF 10% 50V 0603 470nF 50V 0402 | 3007 | 3198 031 04720 | |
| 2018 | 2238 867 18101 | 100pF 1% 50V 0603 | 2293 | 3198 035 04710 | 470pF 50V 0402 | 3008 | 4822 051 30102 | |
| 2019 2020 | | 470pF 10% 250V 3300μF 20% 100V | 2295 | 3198 035 04710 | | 3009 3010 | 4822 051 30102 3198 031 01530 | 1kΩ 5% 0.062W 15kΩ 5% 0.01W 04/2 |
| 2021 | | 3300μF 20% 100V 3300μF 20% 100V | 2296 2304 | 3198 035 04710 2020 552 96618 | 470pF 50V 0402 1nF 10% 50V 0402 | 3011 | 4822 051 30561 | 560Ω 5% 0.062W |
| 2022 | 2020 021 91354 | 1000μF 20% 50V | 2305 | 2238 586 59812 | 100nF 20% 50V 0603 | 3012 | 3198 031 04720 | |
| 2023 2024 | | 100nF 10% 50V 0805 | 2306 | 2238 586 59812 | 100nF 20% 50V 0603 | 3013 3014 | 4822 117 13606 4822 050 23309 | 10kΩ 5% 0.01W 04⁄2 33Ω 1% 0.6W |
| 202 4 2025 | 4822 124 12084 | 3.3nF 5% 50V 0402 1uF 20% 50V | 2322 2324 | | 100nF 20% 50V 0603 100nF 20% 50V 0603 | 3015 | 4822 050 23309 | |
| 2026 | 2020 552 96623 | 2.2nF 10% 50V 0402 | 2350 | 4822 124 12095 | | 3016 | 4822 051 10102 | 1kΩ 2% 0.25W |
| 2027 | | 15nF 10% 16V 0402 | 2352 | 2238 586 59812 | 100nF 20% 50V 0603 | 3017 3018 | 4822 050 23309 | |
| 2028 2029 | 2238 930 11541 2238 930 11541 | | 2364 | | 100nF 20% 50V 0603 | 3018 | 4822 050 21009 4822 051 10102 | |
| 2030 | | 100nF 20% 50V 0603 | 2376 2377 | | 100nF 20% 50V 0603 100nF 20% 50V 0603 | 3020 | 3198 031 05630 | 56kΩ 5% 0402 |
| 2031 | | 10nF 10% 16V 0402 | 2381 | | 100nF 20% 50V 0603 | 3022 | 4822 051 30681 | |
| | | | | | | 3023 | 3198 031 04730 | 4712 5% 0402 |

| 3024 | 4822 117 12306 | 150kΩ 1% 0.1W | 3125 | 2322 704 67502 | 7.5kΩ 1% 0.5W | 3376 | 3198 031 04730 | |
|--------------|----------------------------------|---|--------------|----------------------------------|--|--------------|----------------------------------|--------------------------------------|
| 3025 | 2322 706 71802 | | 3126 | 2322 706 72202 | | 3377 | 3198 031 04720 | |
| 3026 3027 | 4822 051 20684 3198 031 04730 | | 3128 3130 | 4822 117 13603 4822 051 30123 | | 3378 3380 | 3198 031 04730 | 10kΩ 5% 0.01W 0402 47Ω 5% 0402 |
| 3028 | 2322 704 67502 | | 3131 | 2322 706 71003 | | 3381 | 3198 031 04730 | |
| 3029 | 4822 051 30123 | 12kΩ 5% 0.1W | 3132 | | 220Ω 5% 0.01W 0402 | 3383 | | 10kΩ 5% 0.01W 0402 |
| 3030 | | 18kΩ 5% 0.01W 0402 | 3133 3134 | | 100Ω 5% 0.062W 680Ω 5% 0.062W | 3384 3386 | | 10kΩ 5% 0.01W 0402 100Ω 5% 0.062W |
| 3031 3032 | 2322 706 71003 2322 706 71003 | | 3135 | 3198 031 04730 | | 3388 | | 1kΩ 5% 0.062W |
| 3033 | 2322 705 70184 | | 3136 | 3198 031 04730 | | 3389 | 4822 051 30102 | |
| 3034 | | 220Ω 5% 0.01W 0402 | 3143 | 4822 053 12472 | | 3390 | 4822 117 13548 | |
| 3035 3036 | | 680kΩ 5% 0.1W NTC 1Ω 20% 6W | 3147 3149 | 2322 706 71003 4822 052 10478 | | 3391 3392 | 3198 031 04730 | 10kΩ 5% 0.01W 0402 |
| 3037 | | 10kΩ 5% 0.01W 0402 | 3150 | 3198 031 01050 | | 3393 | 3198 031 04730 | |
| 3038 | 4822 117 11297 | 100kΩ 5% 0.1W | 3200 | | 330kΩ 5% 0.1W | 3394 | 3198 031 04730 | |
| 3039 | | 1MΩ 5% 0.062W | 3202 | | 47Ω 5% 0.062W | 3395 | 3198 031 01540 | |
| 3040 3041 | 4822 117 10837 4822 117 13603 | 100kΩ 1% 0.1W 33kΩ 5% 0402 | 3203 3204 | | 100Ω 5% 0.062W 100kΩ 5% 0.1W | 3397 3398 | 3198 031 04730 3198 031 04730 | |
| 3042 | | 47Ω 5% 0.062W | 3205 | | 150kΩ 5% 0402 | 3399 | | 5.6kΩ 5% 0.01W 0402 |
| 3043 | 3198 031 04720 | | 3206 | | 2.7kΩ 1% 0.1W 0805 | 3400 | 2122 550 00158 | |
| 3044 3045 | 4822 051 30102 | 1kΩ 5% 0.062W 1kΩ 5% 0.062W | 3207 3208 | | 2.7kΩ 1% 0.1W 0805 2.7kΩ 1% 0.1W 0805 | 3401 3404 | 4822 117 10118 4822 116 83872 | |
| 3046 | | 5.6MΩ 5% 0.25W | 3209 | | 2.7kΩ 1% 0.1W 0805 | 3450 | 2322 662 93131 | |
| 3047 | 3198 031 01540 | | 3210 | 2322 706 71002 | | 3451 | 2322 662 93131 | |
| 3048 | 3198 031 04720 | | 3212 | 4822 051 30102 4822 117 13603 | 1kΩ 5% 0.062W | 3452 3460 | | NTC 1Ω 20% 6W 2.2kΩ 5% 0.01W 0402 |
| 3049 3050 | 3198 031 01230 4822 052 10398 | | 3213 3214 | | 120kΩ 5% 0402 | 3461 | | 10kΩ 5% 0.01W 0402 |
| 3051 | 4822 051 20822 | | 3215 | 2322 705 70274 | 270kΩ 5% 0402 | 3463 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 |
| 3052 | | 150kΩ 1% 0.1W | 3216 | 4822 117 13548 | | 3465 | | 10kΩ 5% 0.01W 0402 |
| 3053 3054 | 2322 662 93131 4822 117 13543 | | 3217 3218 | | 10kΩ 5% 0.01W 0402 0.051Ω 5% 1W 2512 | 3467 3469 | 3198 031 04720 | 10kΩ 5% 0.01W 0402 4.7kΩ 5% 0402 |
| 3055 | 4822 117 10833 | | 3219 | | 10kΩ 5% 0.01W 0402 | 3470 | | 10kΩ 5% 0.01W 0402 |
| 3056 | 4822 051 30331 | 330Ω 5% 0.062W | 3220 | 4822 050 23309 | | 3471 | 4822 117 13548 | |
| 3057 3058 | 4822 051 30101 4822 051 20105 | 100Ω 5% 0.062W | 3224 3225 | 2322 706 71203 2322 706 71003 | | 3472 3501 | 4822 117 13548 4822 051 30102 | |
| 3059 | 3198 031 05630 | | 3226 | | 10kΩ 5% 0.01W 0402 | 3502 | 4822 051 30471 | |
| 3060 | | 220kΩ 1% 0.6W | 3228 | | 150Ω 5% 0.062W | 3503 | 2322 706 74702 | 4.7kΩ 5% 0402 |
| 3061 | | 18kΩ 5% 0.01W 0402 | 3262 | 2322 706 71003 | | 3504 | 2322 706 73303 | |
| 3062 3063 | 4822 117 13548 4822 117 13548 | | 3263 3265 | 2322 706 71003 4822 117 13548 | | 3505 3506 | 2322 706 74702 2322 662 93131 | |
| 3064 | | 10kΩ 5% 0.01W 0402 | 3268 | 4822 117 13548 | | 3507 | 4822 051 20684 | |
| 3065 | 4822 117 13548 | | 3269 | | 2.7kΩ 5% 0.01W 0402 | 3509 | 2312 915 11209 | |
| 3066 3067 | | 10kΩ 5% 0.01W 0402 15kΩ 5% 0.01W 0402 | 3292 3300 | 2322 706 72204 | 560Ω 5% 0.062W 220kO 5% 0402 | 3603 3604 | 4822 051 20474 4822 051 20474 | |
| 3068 | | 10kΩ 5% 0.01W 0402 | 3301 | 2322 706 72204 | | 3605 | 4822 051 20474 | |
| 3069 | 4822 051 30471 | 47Ω 5% 0.062W | 3304 | | 1kΩ 5% 0.062W | 3606 | | 100Ω 5% 0.062W |
| 3070 3071 | 4822 051 30103 3198 031 04730 | 10kΩ 5% 0.062W | 3306 3307 | 2322 706 71003 | 10kΩ 5% 0402 12kΩ 1% 0.063W 0603 | 3607 3608 | 4822 117 12891 2312 915 11209 | |
| 3073 | 3198 031 04730 | | 3308 | | 1kΩ 5% 0.062W | 3609 | 4822 051 20474 | |
| 3074 | 3198 031 01530 | 15kΩ 5% 0.01W 0402 | 3311 | | 220kΩ 1% 0.1W 0805 | 3610 | 4822 050 23308 | |
| 3075 | 4822 051 20105 | | 3312 | | 1kΩ 5% 0.062W | 3611 | 4822 050 21003 | |
| 3076 3077 | 4822 117 11297 4822 051 20105 | 100kΩ 5% 0.1W 1MΩ 5% 0.1W | 3313 3317 | 2322 704 67502 2322 704 67502 | | 3613 3614 | 2322 194 95001 | 10kΩ 5% 0.01W 0402 0.27Ω 5% 2W |
| 3078 | | 100kΩ 5% 0.1W | 3320 | 2322 706 71003 | 10kΩ 5% 0402 | 3615 | 2322 194 95001 | |
| 3079 | | 680Ω 5% 0.062W | 3321 | | 1kΩ 5% 0.062W | 3616 | 3198 031 01230 | |
| 3080 3081 | | 680Ω 5% 0.062W 1.2kΩ 5% 0.01W 0402 | 3322 3323 | 2322 706 73902 2322 706 71003 | | 3617 3618 | 3198 031 04730 4822 117 13603 | |
| 3082 | | 1.2kΩ 5% 0.01W 0402 | 3324 | 4822 051 30102 | 1kΩ 5% 0.062W | 3619 | 3198 031 03320 | |
| 3083 | 2312 915 11002 | | 3325 | | 47Ω 5% 0.062W | 3620 | 2322 194 95001 | |
| 3084 3085 | 4822 117 13606 3198 031 04730 | 10kΩ 5% 0.01W 0402 47Ω 5% 0402 | 3326 3327 | 3198 031 04720 4822 117 13606 | 4.7kΩ 5% 0402 10kΩ 5% 0.01W 0402 | 3621 3622 | 4822 050 22208 4822 050 22208 | |
| 3086 | 3198 031 04730 | | 3328 | | 10kΩ 5% 0.062W | 3623 | 4822 117 13548 | |
| 3087 | 3198 031 04730 | | 3332 | 2322 706 76803 | | 3639 | 4822 051 10102 | |
| 3088 3089 | 3198 031 04730 | 47Ω 5% 0402 10kΩ 5% 0.01W 0402 | 3333 3334 | 2322 706 71003 | 1kΩ 5% 0.062W | 3640 3641 | 4822 051 30331 4822 051 20471 | 330Ω 5% 0.062W 470Ω 5% 0.1W |
| 3090 | 4822 117 13545 | | 3335 | | 15kΩ 5% 1W 0402 | 3642 | 4822 117 11503 | |
| 3091 | | 1kΩ 5% 0.062W | 3340 | | 1kΩ 5% 0.062W | 3643 | 4822 117 11503 | |
| 3092 3093 | 4822 051 10102 4822 117 13548 | | 3341 3342 | | 10kΩ 5% 0.01W 0402 10kΩ 5% 0.062W | 3651 3652 | 4822 117 13601 3198 031 01050 | |
| 3093 | 4822 051 10102 | | 3343 | | 1kΩ 5% 0.062W | 3654 | | 10kΩ 5% 0.01W 0402 |
| 3095 | 4822 117 13543 | 470Ω 5% 0402 | 3344 | | 1kΩ 5% 0.062W | 3655 | 4822 117 13548 | |
| 3096 | | 5.6kΩ 5% 0.01W 0402 | 3345 | 4822 117 13548 | | 3656 | | 1.8kΩ 5% 0.01W 04O2 |
| 3097 3098 | 3198 031 08210 4822 117 13548 | | 3346 3347 | 4822 117 13548 4822 051 30331 | 330Ω 5% 0.062W | 3659 3660 | 4822 117 11503 4822 117 11504 | |
| 3100 | 2322 706 71002 | | 3348 | | 330Ω 5% 0.062W | 3661 | 4822 117 11504 | |
| 3101 | 2322 706 71002 | | 3349 | | 1kΩ 5% 0.062W | 3663 | 4822 052 10108 | |
| 3102 3103 | 2322 706 71002 2322 706 71002 | | 3350 3351 | | 4.7Ω 5% 0.062W 10kΩ 5% 0.062W | 3664 3665 | 2322 706 71204 2322 705 70274 | |
| 3104 | 2322 706 71002 | | 3352 | | 10kΩ 5% 0.062W | 3666 | | 100Ω 5% 0.062W |
| 3106 | | 2.7kΩ 1% 0.1W 0805 | 3353 | | 10kΩ 5% 0.01W 0402 | 3668 | 4822 052 11102 | |
| 3107 3108 | | 2.7kΩ 1% 0.1W 0805 2.7kΩ 1% 0.1W 0805 | 3354 3358 | 3198 031 04720 4822 051 30222 | 4.7kΩ 5% 0402 2.2kΩ 5% 0.062W | 3669 3671 | 2322 706 71204 2322 706 71003 | |
| 3108 | | 2.7kΩ 1% 0.1W 0805 | 3359 | | 5.6kΩ 5% 0.01W 0402 | 3673 | 4822 052 11102 | |
| 31 10 | 4822 117 13548 | 1kΩ 5% 0402 | 3360 | 3198 031 01220 | 1.2kΩ 5% 0.01W 0402 | 3675 | 2322 702 60158 | 1.5Ω |
| 3112 | | 1kΩ 5% 0.062W | 3361 | 3198 031 04720 | | 3676 | 2322 706 74702 | |
| 3114 3115 | | 560kΩ 5% 0402 220kΩ 5% 0.1W 0402 | 3362 3363 | | 2.7kΩ 5% 0.01W 0402 1kΩ 5% 0.062W | 3677 3678 | 2322 706 74703 3198 031 04730 | |
| 3116 | 4822 117 13548 | 1kΩ 5% 0402 | 3364 | 4822 051 30272 | 2.7kΩ 5% 0.062W | 3679 | 4822 117 12306 | 150kΩ 1 % 0.1W |
| 3117 | | 10kΩ 5% 0.01W 0402 | 3366 | | 10kΩ 5% 0.01W 0402 | 3680 | | 220kΩ % 0.1W 0805 |
| 3118 3120 | | 0.051Ω 5% 1W 2512 1.8kΩ 5% 0.062W 0603 | 3367 3369 | 4822 051 30103 3198 031 04720 | 10kΩ 5% 0.062W 4.7kΩ 5% 0402 | 3681 3682 | | 220kن% 0.1W 0805 220kن% 0.1W 0805 |
| 3121 | 3198 031 04730 | 47Ω 5% 0402 | 3370 | 2322 675 20907 | PTC 470 Ω 50% 25V 0805 | 3683 | 4822 051 20334 | 330kΩ 5-% 0.1W |
| 3123 | 4822 117 10965 | | 3373 | 3198 031 04720 | | 3684 | 4822 051 20334 | 330kΩ 5⁴% 0.1W |
| 3124 | 2322 704 67502 | 7.5K\$2 1% U.5W | 3374 | 3198 031 04730 | 4/12 5% 0402 | 3685 | 4822 051 20334 | 330K11 5% 0.1W |

| EN 10 | 10. | LC4.9E AB | Sp | are Parts List |
|-------|---------------|---------------------|------|----------------|
| 3686 | | 1 15Ω 5% 0603 0.62W | 6230 | 9322 155 79685 |
| 2600 | 2109 021 0202 | 0 2 OLO E0/ 0402 | 6067 | 4000 400 00607 |

| 3686 | 4822 117 12971 | 15Ω 5% 0603 0.62W | 6230 | 9322 155 79685 | EC31QS04 | 7112 | 9352 673 56112 | TEA1507p/N1 |
|--|---|--|--|--|--|---|---|--|
| 3690 | 3198 031 03920 | | 6267 | 4822 130 82627 | | 7117 | 9340 557 17118 | |
| 3691 | 3198 031 08220 | | 6269 | 9322 099 61685 | | 7120 | 9322 149 04682 | |
| 3692 | | | 6270 | | | | | |
| | | 10kΩ 5% 0.01W 0402 | | 9322 099 61685 | | 7121 | 9322 192 16685 | |
| 3693 | | 2.2kΩ 5% 0.01W 0402 | 6291 | 4822 130 11572 | | 7130 | 9322 192 16685 | |
| 3806 | 4822 117 13543 | 470Ω 5% 0402 | 6292 | 4822 130 11572 | | 7134 | 3198 010 42310 | BC847BW |
| 3807 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 6312 | 4822 130 80622 | BAT54 | 7200 | 9340 565 06215 | BSH114 |
| 3808 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 6313 | 4822 130 80622 | BAT54 | 7202 | 9965 000 04199 | BSN20 |
| 3809 | 3198 031 02730 | | 6321 | 4822 130 80622 | | 7212 | 9352 673 56112 | |
| 3811 | 4822 117 13545 | | 6322 | 4822 130 80622 | | 7217 | 9340 557 18127 | |
| 3999 | | | 6325 | | | | | |
| | 4822 117 13548 | | | 4822 130 11416 | | 7220 | 9322 149 04682 | |
| 9001 | 4822 051 20008 | | 6333 | 4822 130 80622 | | 7227 | 9322 192 16685 | |
| 9020 | 4822 051 20008 | | 6334 | 4822 130 80622 | | 7230 | 9322 205 64687 | L4940P85 |
| 9028 | 4822 117 13605 | Jumper 0402 | 6335 | 4822 130 11397 | BAS316 | 7260 | 9322 166 31682 | L4973V3.3 |
| | | | 6340 | 4822 130 80622 | BAT54 | 7304 | 9322 192 16685 | TS2431AI |
| | | | 6341 | 4822 130 80622 | BAT54 | 7308 | 9322 213 35668 | LM339P |
| | | | 6344 | 4822 130 10838 | UDZ3.3B | 7326 | 3198 010 42310 | |
| | | | 6347 | 4822 130 80622 | | 7327 | 3198 010 42310 | |
| 5001 | 2422 531 02444 | Transf. S13932-04Y | 6362 | 4822 130 11397 | | 7330 | | |
| 5002▲ | 3104 308 21022 | Transf. BS42315-02 | 6364 | | | | 9322 213 35668 | |
| 5004▲ | 3104 308 21022 | Transf. BS42315-02 | | 4822 130 11397 | | 7341 | 3198 010 42320 | |
| 5005 | | Mains filter CU28D3 | 6365 | 4822 130 11397 | | 7348 | 3198 010 42310 | |
| 5121 | | Bridge coil BD21232-00 | 6366 | 4822 130 11397 | | 7351 | 3198 010 42310 | |
| 5220 | | Transf. BS29238-00 | 6367 | 4822 130 11397 | BAS316 | 7352 | 3198 010 42310 | BC847BW |
| | | | 6375 | 4822 130 11397 | BAS316 | 7362 | 3198 010 42310 | BC847BW |
| 5225 | 2422 536 00672 | | 6376 | 4822 130 11397 | BAS316 | 7363 | 3198 010 42310 | BC847BW |
| 5229 | 2422 536 00826 | | 6378 | 4822 130 80622 | | 7366 | 9322 213 19668 | |
| 5290 | 3104 308 21171 | Transf. BD15403-00 | 6460 | 4822 130 11397 | | 7375 | 3198 010 42310 | |
| 5291 | 4822 157 11737 | | 6461 | 4822 130 11397 | | 7376 | | |
| 5292 | 4822 157 11737 | 22μH 10% | 6470 | | | | 3198 010 42310 | |
| 5293 | 4822 157 11737 | | | 4822 130 11397 | | 7391 | 3198 010 42320 | |
| 5401 | | Mains filter CU28D3 | 6471 | 4822 130 11397 | | 7460 | 9340 219 30115 | |
| 5402 | | Mains filter CU28D3 | 6501 | 9322 218 64673 | | 7461 | 4822 130 60142 | |
| 5500 | | | 6502 | 9322 218 64673 | | 7465 | 3198 010 42320 | |
| | | Transf. BS16510-01 Y | 6503 | 9322 176 76668 | RS1J | 7470 | 9340 219 30115 | BC817-25W |
| 5503 | 2422 535 94639 | | 6504 | 9322 176 76668 | RS1J | 7500 | 9322 037 99682 | |
| 5600 | | Coil BS42228-00 B | 6505 | 9322 155 79685 | FC31QS04 | 7501 | 9322 149 04682 | |
| 5601 | 4822 157 11411 | Bead 80Ω at 100MHz | 6506 | 9322 218 64673 | | 7502 | 9322 192 16685 | |
| 5612 | 4822 157 11411 | Bead 80Ω at 100MHz | 6507 | 9322 155 79685 | | 7540 | 4822 209 17398 | |
| 5660 | 4822 157 51192 | 220μH 10% | | | | | | |
| | | | 6508 | 9322 128 69685 | | 7601 | 3198 010 42310 | |
| | | | 6510 | 9322 099 61685 | | 7602 | 3198 010 42320 | |
| -> - | | | 6511 | 9322 099 61685 | | 7608 | 5322 130 44593 | BC369 |
| | | | 6512 | 9322 099 61685 | BYG10J | 7610 | 9322 223 21687 | STW29NK50Z |
| 6002 | 4822 130 11397 | BAS316 | 6513 | 9322 099 61685 | BYG10J | 7640 | 9965 000 04199 | BSN20 |
| 6003 | 9340 548 71115 | | 6600 | 9322 177 84667 | GBU8JL-7014 | 7641 | 9340 219 30115 | |
| 6004 | 4822 130 11397 | | 6601 | 9322 150 17685 | | 7650 | 9322 130 69682 | |
| 6005 | 4822 130 11397 | | 6602 | 4822 130 11522 | | 7654 | 3198 010 42320 | |
| | | | 6605 | 9322 192 15668 | | 7655 | | |
| 6006 | 4822 130 11397 | | 6606 | | | | 3198 010 42310 3198 010 42310 | |
| 6007 | 4822 130 11397 | BAS316 | | | | | | BC84/BW |
| | | | | 9322 192 15668 | | 7656 | | |
| 6008 | 4822 130 11397 | | 6608 | 9322 128 70685 | SMSS14 | 7661 | 5322 209 90529 | |
| | | BAS316 | 6608 6609 | 9322 128 70685 9322 208 81685 | SMSS14 BZG05C18 | | | |
| 6008 | 4822 130 11397 | BAS316 BAS316 | 6608 | 9322 128 70685 | SMSS14 BZG05C18 | 7661 | 5322 209 90529 | MC34063AD |
| 6008 6009 6010 | 4822 130 11397 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 | 6608 6609 | 9322 128 70685 9322 208 81685 | SMSS14 BZG05C18 BYV29X-500 | 7661 | 5322 209 90529 | MC34063AD |
| 6008 6009 6010 6011 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 | 6608 6609 6611 6640 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 | SMSS14 BZG05C18 BYV29X-500 SMSS14 | 7661 | | MC34063AD |
| 6008 6009 6010 6011 6012 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 | 6608 6609 6611 6640 6641 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 | Small S | 5322 209 90529 | MC34063AD |
| 6008 6009 6010 6011 6012 6018 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 BAS316 | 6608 6609 6611 6640 6641 6642 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 | 7661 | 5322 209 90529 | MC34063AD |
| 6008 6009 6010 6011 6012 6018 6019 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BAS316 BAS316 BAS316 | 6608 6609 6611 6640 6641 6642 6643 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11152 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B | Small S | 5322 209 90529 | MC34063AD |
| 6008 6009 6010 6011 6012 6018 6019 6021 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 11397 4822 130 32961 | BAS316 BAS316 BAS316 BAS316 BAS316 BAS316 BAS316 BAS316 | 6608 6609 6611 6640 6641 6642 6643 6651 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11152 4822 130 80622 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 | Small S | 5322 209 90529 Signal Board | MC34063AD [B] |
| 6008 6009 6010 6011 6012 6018 6019 6021 6023 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 11397 4822 130 32961 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 BAS316 BAS316 BYV28-200 BAS316 | 6608 6609 6611 6640 6641 6642 6643 6651 6652 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11152 4822 130 80622 9322 128 70685 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 SMSS14 | Small S Various | 5322 209 90529 Signal Board 2422 549 00148 | MC34063AD [B] Socket 3p m |
| 6008 6009 6010 6011 6012 6018 6019 6021 6023 6027 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 1397 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 BAS316 BAS316 BYV28-200 BAS316 BAS316 | 6608 6609 6611 6640 6641 6642 6643 6651 6652 6653 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11152 4822 130 80622 9322 128 70685 4822 130 10837 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 SMSS14 UDZS8.2B | Small S Various | 5322 209 90529 Signal Board 2422 549 00148 2422 549 00151 | MC34063AD [B] Socket 3p m Socket 3p m |
| 6008 6009 6010 6011 6012 6018 6019 6021 6023 6027 6028 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 BAS316 BAS316 BYV28-200 BAS316 BAS316 BAS316 | 6608 6609 6611 6640 6641 6642 6643 6651 6652 6653 6654 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11152 4822 130 80622 9322 128 70685 4822 130 10837 4822 130 10837 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 SMSS14 UDZS8.2B BAS316 | 7661 Small S Various 1062 1062 1101 | 5322 209 90529 Signal Board 2422 549 00148 2422 549 00151 2422 025 18749 | MC34063AD [B] Socket 3p m Socket 3p m Connector 3p m |
| 6008 6009 6010 6011 6012 6018 6019 6021 6023 6027 6028 6029 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 3198 020 55680 4822 130 11397 4822 130 1397 4822 130 11397 4822 130 11397 | BAS316 BAS316 BAS316 BAS316 BZX384-C5V6 BAS316 BAS316 BYV28-200 BAS316 BAS316 BAS316 | 6608 6609 6611 6640 6641 6642 6643 6651 6652 6653 6654 6660 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 80622 9322 128 70685 4822 130 10837 4822 130 10837 4822 130 11397 9322 202 55685 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 SMSS14 UDZ88.2B BAS316 BYG22D | 7661 Small S Various 1062 1062 1101 1102 | 5322 209 90529 Signal Board 2422 549 00148 2422 549 00151 2422 025 18749 3139 147 19801 | MC34063AD [B] Socket 3p m Socket 3p m Connector 3p m Tuner UV1318S/A IH –3 |
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| 6008 6009 6010 6011 6012 6018 6021 6023 6027 6028 6029 6031 6032 6034 6035 6042 6045 6050 6054 6050 6054 6050 6051 6062 6075 6077 6086 6111 6112 6113 6114 6117 6120 6123 6133 6142 6201 6202 6204 6205 6204 6205 6206 6211 6213 6216 | 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11416 3198 020 55680 9322 150 18685 4822 130 11397 4822 130 11397 4822 130 11397 9322 150 18685 9322 202 88687 4822 130 1152 9340 553 52115 9340 553 52115 9340 292 80135 9340 55680 4822 130 11152 9322 202 56680 4822 130 11397 9322 202 55680 4822 130 11397 9322 202 55680 4822 130 11397 9322 202 55680 4822 130 11397 9322 202 55680 4822 130 11397 9322 202 55680 4822 130 11397 | BAS316 BAS321 BAS321 UDZ18B BUDZ18B BZG03-C270 BZG03-C270 BZG03-C270 BZG03-C270 BZG03-C270 BAS316 BAS321 BAS321 BAS321 BAS321 BAS321 BAS316 BYG22D BAS316 UDZ18B | 6608 6609 6611 6640 6641 6642 6663 6651 6652 6663 6666 6661 6663 6665 6666 7007 7002 7003 7004 7005 7006 7007 7008 7007 7011 7012 7010 7011 7012 7013 7017 7018 7020 7050 7050 7050 7050 7050 7050 7050 | 9322 128 70685 9322 208 81685 3139 120 52021 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 11397 9322 128 70685 4822 130 10837 4822 130 10837 9322 202 55685 9322 202 55685 9322 202 55685 9322 198 81685 9322 198 81685 9322 198 81685 9322 198 21682 9322 149 04682 9322 149 04682 9322 149 04682 9322 192 16685 9322 192 16685 3198 010 42310 9325 671 30126 9340 308 50135 9340 557 58118 3198 010 42310 9340 308 50135 9340 557 58118 3198 010 42310 9340 308 50135 9340 557 58118 3198 010 42320 | SMSS14 BZG05C18 BYV29X-500 SMSS14 BAS316 SMSS14 UDZ18B BAT54 SMSS14 UDZ18BB BAT54 SMSS16 BYG22D BYG22D BYG22D SL04 SL04 UDZS8.2B MC34067P TCET1102 TCET1102 TCET1102 TCET1102 TCET1102 FSTP15NK50ZFP STP15NK50ZFP ST | 7661 Small S Various 1062 11062 1101 1102 1104 1107 1202 1801 1F00 1F01 1G01 1J00 1J01 1J04 1J07▲ 1J07▲ 1J08▲ 1K00 1K02 1K04 1N01 1N02 1K04 1N02 1K04 1N05 1P01 1P02 1P03 1P04 1P05 1P07 8321 ─────────────────────────────────── | 5322 209 90529 Signal Board 2422 549 00148 2422 549 00151 2422 025 18749 3139 147 19801 2422 549 44372 2422 549 44369 2422 549 44369 2422 025 18749 2422 543 01414 2422 543 01615 2422 026 05703 2422 025 18959 2422 025 18959 2422 025 10769 2422 025 10769 2422 025 10769 2422 086 11105 2422 025 08149 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 10768 2422 025 18479 2722 171 08825 2422 549 45325 | MC34063AD [B] Socket 3p m Socket 3p m Connector 3p m Tuner UV1318S/A IH –3 SAW 38.9MHz K3953 L SAW 38.9MHz K9656 L Connector 3p m Xtal 24.576MHz Xtal 14.32MHz 20pF Socket DVI-I 29p f Socket DVI-I 29p f Socket 21P f shd Socket 21P f shd Connector 10p m Connector 10p m Connector 10p m Connector 11p m Connector 3p m Fuse T3A 125V Fuse F630mA 50V Connector 6p m Connector 1p m Connector 4P m Xtal 14.31818Mhz 15p F Bead 67Ω at 100MHz |

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|--------------------------------|----------------------------------|--|--------------|----------------------------------|--|--------------|----------------------------------|--|
| 2105 | 4822 122 33761 | 22pF 5% 50V | 2711 | | 10μF 20% 25V 1210 | 2948 | | 100nF 10% 16V 0402 |
| 2106 | | 10nF 10% 50V 0603 | 2713 | | 470μF 20% 16V 220pF 5% 50V 0402 | 2949 2950 | 3198 035 71040 5322 124 41945 | 100nF 10% 16V 0402 |
| 2107 2109 | 3198 024 44730 5322 124 41945 | | 2714 2715 | | 22nF 10% 16V 0402 | 2951 | | 100nF 10% 16V 0402 |
| 2113 | | 100μF 20% 16V | 2716 | 2020 012 00028 | 470μF 20% 16V | 2952 | | 100nF 10% 16V 0402 |
| 2203 | 4822 124 23002 | | 2730 | | 10μF 20% 25V 1210 | 2953 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 |
| 2206 2207 | | 2.2µF 6.3V 10% 0603 220nF 10% 6.3V 0402 | 2731 2733 | | 470μF 16V 20% SMD 220pF 5% 50V 0402 | 2954 2955 | 5322 124 41945 | |
| 2208 | 4822 124 12084 | | 2734 | | 22nF 10% 16V 0402 | 2956 | | 100nF 10% 16V 0402 |
| 2209 | 4822 124 23002 | | 2735 | | 470pF 50V 0402 | 2957 | | 100nF 10% 16V 0402 |
| 2210 2211 | | 220nF 10% 6.3V 0402 10nF 10% 16V 0402 | 2736 2737 | 2022 031 00308 | 22μF 20% 35V 470μF 16V 20% SMD | 2958 2959 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 |
| 2214 | | 1nF 10% 50V 0402 | 2738 | 4822 124 80151 | | 2A00 | | 100nF 20% 50V 0603 |
| 2216 | 2020 552 96618 | 1nF 10% 50V 0402 | 2739 | 4822 124 80151 | | 2A01 | | 100pF 5% 50V 0402 |
| 2218 2221 | | 100nF 10% 16V 0402 | 2741 2750 | | 220nF +80-20% 16V 2.2µF 6.3V 10% 0603 | 2A02 2A12 | | 100pF 5% 50V 0402 10nF 10% 16V 0402 |
| 2223 | | 100μF 20% 16V 100pF 5% 50V 0402 | 2753 | | 470μF 16V 20% SMD | 2A13 | | 100nF 10% 16V 0402 |
| 2225 | 2020 552 96618 | 1nF 10% 50V 0402 | 2755 | | 4.7nF 5% 25V 0402 | 2B01 | 4822 124 80151 | |
| 2226 2227 | | 3.3nF 5% 50V 0402 1nF 10% 50V 0402 | 2756 2757 | | 470pF 50V 0402 470μF 16V 20% SMD | 2B02 2B03 | 4822 124 11131 | 4/μF 6.3V 100nF 10% 16V 0402 |
| 2228 | | 100nF 10% 16V 0402 | 2758 | | 470µF 16V 20% SMD | 2B04 | | 100nF 10% 16V 0402 |
| 2230 | 3198 035 71040 | 100nF 10% 16V 0402 | 2761 | 2020 552 96671 | | 2B05 | | 100nF 10% 16V 0402 |
| 2231 | | 220nF 10% 6.3V 0402 | 2762 2800 | 4822 124 23237 | 22μF 6.3V 100μF 20% 16V | 2B06 2B07 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 |
| 2232 2233 | 4822 124 23002 | 100nF 10% 16V 0402 10uF 16V | 2801 | | 100nF 10% 16V 0402 | 2B08 | | 100nF 10% 16V 0402 |
| 2234 | 2020 552 96718 | 220nF 10% 6.3V 0402 | 2802 | | 100nF 10% 16V 0402 | 2B09 | | 100nF 10% 16V 0402 |
| 2235 | | 220nF 10% 6.3V 0402 | 2803 2804 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2B10 2B11 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 |
| 2236 2237 | | 220nF +80/-20% 25V 220nF 10% 6.3V 0402 | 2805 | | 100nF 10% 16V 0402 | 2B12 | | 100nF 10% 16V 0402 |
| 2238 | 2020 552 96718 | 220nF 10% 6.3V 0402 | 2806 | | 100nF 10% 16V 0402 | 2B13 | | 100nF 10% 16V 0402 |
| 2239 | | 100nF 10% 16V 0402 | 2807 2808 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2B14 2B15 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 |
| 2240 2241 | | 220nF 10% 6.3V 0402 220nF 10% 6.3V 0402 | 2809 | | 100nF 10% 16V 0402 | 2B16 | | 100nF 10% 16V 0402 |
| 2242 | | 100nF 10% 16V 0402 | 2810 | | 100nF 10% 16V 0402 | 2B17 | | 100nF 10% 16V 0402 |
| 2243 2244 | 4822 124 23002 | 10μF 16V 100nF 10% 16V 0402 | 2811 2812 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2B18 2C00 | 5322 124 41945 | 22μF 20% 35V 100nF 10% 16V 0402 |
| 2244 2245 | | 100nF 10% 16V 0402 | 2813 | | 100nF 10% 16V 0402 | 2C01 | 4822 124 23002 | |
| 2246 | 3198 035 71040 | 100nF 10% 16V 0402 | 2814 | | 100nF 10% 16V 0402 | 2C02 | | 100nF 10% 16V 0402 |
| 2250 2251 | | 1nF 10% 50V 0402 10μF 20% 25V 1210 | 2815 2816 | 5322 124 41945 | 22μF 20% 35V 100nF 10% 16V 0402 | 2C03 2E00 | | 100nF 1 0% 16V 0402 4.7μF 1 0% 6.3V 0603 |
| 2252 | | 100nF 10% 16V 0402 | 2817 | | 100nF 10% 16V 0402 | 2E01 | | 4.7μF 10% 6.3V 0603 |
| 2253 | | 100nF 10% 16V 0402 | 2818 | | 100nF 10% 16V 0402 | 2E02 | | 4.7μF1O% 6.3V 0603 |
| 2254 2255 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2819 2820 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2E03 2E04 | | 100nF 1 0% 16V 0402 1μF 20% 6.3V 0402 |
| 2256 | 4822 124 23002 | | 2821 | | 100nF 10% 16V 0402 | 2E05 | | 1μF 20% 6.3V 0402 |
| 2257 | | 100nF 10% 16V 0402 | 2822 | | 100nF 10% 16V 0402 | 2E06 | | 1μF 20% 6.3V 0402 |
| 2258 2259 | | 10μF 10% 6.3V 0805 100nF 10% 16V 0402 | 2823 2824 | | 22pF 5% 50V 0402 22pF 5% 50V 0402 | 2E07 2E08 | | 33pF 5% 50V 0402 4.7μF 1 O % 6.3V 0603 |
| 2260 | | 10μF 10% 6.3V 0805 | 2900 | | 100nF 10% 16V 0402 | 2E09 | 4822 126 14324 | 33pF 5% 50V 0402 |
| 2262 | 4822 124 12082 | | 2901 | | 1nF 10% 50V 0402 | 2E10 | | 4.7μF1O% 6.3V 0603 33pF5% 50V 0402 |
| 2263 2264 | | 6.8nF 10% 16V 0402 470nF 10V 0603 | 2902 2903 | | 470μF 20% 16V 100nF 10% 16V 0402 | 2E11 2E12 | | 4.7μF1 O % 6.3V 0603 |
| 2265 | 3198 017 41050 | 1μF 10V 0603 | 2904 | 4822 124 80151 | 47μF 16V | 2E13 | 3198 017 41050 | 1μF 10V 0603 |
| 2266 | | 100nF 10% 16V 0402 220nF 10% 6.3V 0402 | 2905 2906 | | 100μF 20% 16V 100nF 10% 16V 0402 | 2E14 2E15 | | 33pF5% 50V 0402 100nf 1 0 % 16V 0402 |
| 2267 2269 | | 470µF 16V 20% SMD | 2907 | | 100nF 10% 16V 0402 | 2E16 | | 100nf 1 0% 16V 0402 |
| 2270 | 3198 035 71040 | 100nF 10% 16V 0402 | 2908 | | 100nF 10% 16V 0402 | 2E17 | | 100nf 1 0% 16V 0402 |
| 2271 2272 | | 100μF 20% 16V 100nF 10% 16V 0402 | 2909 2910 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2E18 2E19 | | 100nf 1 O % 16V 0402 100nf 1 O % 16V 0402 |
| 2273 | | 220nF 10% 6.3V 0402 | 2911 | | 100nF 10% 16V 0402 | 2E20 | 4822 124 11131 | 47μF 6. 3 V |
| 2274 | | 150nF 10V 0603 | 2912 | | 100nF 10% 16V 0402 | 2E21 | | 4.7μF1 O % 6.3V 0603 |
| 2277 2280 | | 100nF 10% 16V 0402 4.7μF 2% 6.3V 0603 | 2913 2914 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2E22 2E23 | | 4.7μF1 O % 6.3V 0603 4.7μF1 O % 6.3V 0603 |
| 2281 | | 4.7μF 2% 6.3V 0603 | 2915 | | 100nF 10% 16V 0402 | 2E24 | | 100ni 1 0 % 16V 0402 |
| 2285▲ | | 100nF 10% 16V 0402 | 2916 | | 100nF 10% 16V 0402 | 2E25 | | 100nf 1 O % 16V 0402 100nf 1 O % 16V 0402 |
| 2286 2289 ▲ | | 100nF 10% 16V 0402 150Ω 5% 0.062W | 2917 2918 | | 100μF 20% 16V 100nF 10% 16V 0402 | 2E26 2E27 | | 100nf 1 C % 16V 0402 |
| 2290▲ | 2222 240 59872 | 4.7μF 5% 10V 0805 | 2919 | 3198 035 71040 | 100nF 10% 16V 0402 | 2E28 | 3198 035 71040 | 100nF10% 16V 0402 |
| 2291▲ | | 100nF 10% 16V 0402 | 2920 2921 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2E29 2E30 | | 100nf 1 0 % 16V 0402 100nf 1 0 % 16V 0402 |
| 2449 2501 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2922 | | 100nF 10% 16V 0402 | 2E30 2E31 | | 100nf 1 O % 16V 0402 |
| 2502 | | 100nF 10% 16V 0402 | 2923 | 3198 035 71040 | 100nF 10% 16V 0402 | 2E32 | 3198 035 71040 | 100nF10% 16V 0402 |
| 2503 | | 100nF 10% 16V 0402 | 2924 | | 100nF 10% 16V 0402 | 2E33 | | 4.7μF1 () % 6.3V 0603 4.7μF1 () % 6.3V 0603 |
| 2504 2505 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2925 2926 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2E34 2E35 | | 4.7μF1 0 % 6.3V 0603 |
| 2506 | | 330pF 5% 50V 0402 | 2927 | 3198 035 71040 | 100nF 10% 16V 0402 | 2E36 | 3198 035 71040 | 100nF1 0% 16V 0402 |
| 2507 | | 470pF 50V 0402 | 2928 | | 100nF 10% 16V 0402 | 2F04 | 2020 552 94427 | 100pf 5% 50V 100nf 2 0 % 50V 0603 |
| 2508 2509 | | 82pF 5% 50V 0402 82pF 5% 50V 0402 | 2929 2930 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2F07 2F08 | 4822 126 14241 | |
| 2603 | | 1μF 20% 6.3V 0402 | 2931 | | 100nF 10% 16V 0402 | 2F09 | 4822 126 14241 | 330pf060350V |
| 26 04 | | 470pF 50V 0402 | 2932 | | 100nF 10% 16V 0402 | 2F10 | 2020 552 94427 | |
| 2 6 05 2 6 08 | | 1μF 20% 6.3V 0402 1μF 20% 6.3V 0402 | 2933 2934 | 4822 124 80151 | 100nF 10% 16V 0402 47µF 16V | 2F11 2F12 | 4822 126 14241 4822 126 14241 | |
| 2609 | 3198 035 04710 | 470pF 50V 0402 | 2935 | 3198 035 71040 | 100nF 10% 16V 0402 | 2F13 | 4822 126 14508 | 180pf5% 50V 0603 |
| 26 10 | | 1μF 20% 6.3V 0402 100μF 20% 16V | 2936 2937 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2F14 2F15 | | 180pF5% 50V 0603 2.2μF6, 3V 10% 0603 |
| 2611 2612 | 3198 017 41050 | | 2937 | | 100nF 10% 16V 0402 | 2F15 2F16 | | 2.2μF ₆ . 3V 10% 0603 |
| 2614 | 3198 035 71040 | 100nF 10% 16V 0402 | 2939 | 3198 035 71040 | 100nF 10% 16V 0402 | 2G05 | 4822 126 14241 | 330pF060350V |
| 2615 2618 | | 470μF 16V 20% SMD 470μF 16V 20% SMD | 2940 2941 | 4822 124 80151 3198 035 71040 | 47μF 16V 100nF 10% 16V 0402 | 2G06 2G07 | 4822 126 14508 4822 124 23002 | 180pf5 % 50V 0603 |
| 2018 2704 | 4822 124 23002 | | 2942 | | 100nF 10% 16V 0402 | 2G07 2G08 | 2020 552 00035 | 2.2μF ₆ .3V 10% 0603 |
| 2706 | 4822 124 23002 | 10μF 16V | 2945 | 5322 124 41945 | 22μF 20% 35V | 2G09 | 4822 126 14241 | 330pf060350V |
| 2709 2710 | 4822 124 80151 2020 552 96656 | 47μF 16V 10μF 20% 25V 1210 | 2946 2947 | | 100nF 10% 16V 0402 100nF 10% 16V 0402 | 2G10 2G11 | 4822 126 14508 4822 124 23002 | 180pf5 % 50V 0603 10μF 6 ❤ |
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| EN 106 | 10. | LC4.9E AB | Spare Parts List |
|--------|-----|-----------|-------------------|
| | 10. | LOT.JL AD | opare i arto List |

| 2G12 | 2020 552 00035 | 2.2µF 6.3V 10% 0603 | 2M10 | 3198 035 71040 | 100nF 10% 16V 0402 | 3104 | 4822 051 30103 | 10kΩ 5% 0.062W |
|----------------------|----------------------------------|--|------|----------------|---------------------|--------------|----------------------------------|---------------------|
| 2G18 | 4822 126 14241 | 330pF 0603 50V | 2M11 | 3198 035 71040 | 100nF 10% 16V 0402 | 3105 | 4822 117 13548 | |
| 2G19 | | 180pF 5% 50V 0603 | 2M12 | | 100nF 10% 16V 0402 | 3107 | | |
| | | | | | | | | 6.8Ω 5% 0.062W |
| 2G20 | 4822 124 23002 | | 2M13 | | 100nF 10% 16V 0402 | 3108 | | 2.2kΩ 5% 0.062W |
| 2G21 | 2020 552 00035 | 2.2µF 6.3V 10% 0603 | 2M14 | 3198 035 71040 | 100nF 10% 16V 0402 | 3109 | 4822 051 30222 | 2.2kΩ 5% 0.062W |
| 2G22 | 4822 126 14241 | 330pF 0603 50V | 2M15 | 3198 035 71040 | 100nF 10% 16V 0402 | 3111 | 4822 051 30223 | 22kΩ 5% 0.062W |
| 2G23 | | 180pF 5% 50V 0603 | 2M16 | | 100nF 10% 16V 0402 | 3112 | | 18kΩ 5% 0.062W |
| 2G24 | 4822 124 23002 | | 2M17 | | 100nF 10% 16V 0402 | | | |
| | | | | | | 3120 | | 10kΩ 5% 0.01W 0402 |
| 2G25 | | 2.2μF 6.3V 10% 0603 | 2M18 | | 100nF 10% 16V 0402 | 3121 | | 10kΩ 5% 0.01W 0402 |
| 2G26 | 2020 552 00005 | 4.7μF 10% 6.3V 0603 | 2M19 | 3198 035 71040 | 100nF 10% 16V 0402 | 3122 | 4822 117 13545 | 100Ω 1% 0402 |
| 2G28 | 2020 552 00005 | 4.7μF 10% 6.3V 0603 | 2M20 | 3198 035 71040 | 100nF 10% 16V 0402 | 3123 | 4822 117 13545 | 100Ω 1% 0402 |
| 2G47 | | 100nF 20% 50V 0603 | 2M21 | | 2.2μF 6.3V 10% 0603 | 3124 | 4822 117 13545 | |
| 2G55 | | 4.7μF 10% 6.3V 0603 | 2M22 | | 100nF 10% 16V 0402 | 3125 | | |
| | | | | | | | 4822 117 13545 | |
| 2G56 | | 4.7μF 10% 6.3V 0603 | 2M23 | 4822 124 12095 | | 3207 | | 680Ω 5% 0.01W 0402 |
| 2J02 | 2020 552 96618 | 1nF 10% 50V 0402 | 2M24 | 3198 035 71040 | 100nF 10% 16V 0402 | 3208 | 4822 117 13545 | 100Ω 1% 0402 |
| 2J03 | 2020 552 96618 | 1nF 10% 50V 0402 | 2M25 | 3198 035 71040 | 100nF 10% 16V 0402 | 3209 | 4822 117 13545 | 100Ω 1% 0402 |
| 2J17 | 2020 552 96618 | 1nF 10% 50V 0402 | 2M26 | 3198 035 71040 | 100nF 10% 16V 0402 | 3210 | 4822 117 13545 | 1000 1% 0402 |
| 2J18 | | 100pF 5% 50V 0402 | 2M27 | | 100nF 10% 16V 0402 | 3211 | 4822 117 13545 | |
| 2J19 | | | | | | | | |
| | | 100pF 5% 50V 0402 | 2M28 | | 100nF 10% 16V 0402 | 3212 | 4822 117 13545 | |
| 2J21 | | 100pF 5% 50V 0402 | 2M29 | | 100nF 10% 16V 0402 | 3213 | 4822 117 13545 | 100Ω 1% 0402 |
| 2J22 | 2238 869 15101 | 100pF 5% 50V 0402 | 2M30 | 3198 035 71040 | 100nF 10% 16V 0402 | 3214 | 3198 031 06810 | 680Ω 5% 0.01W 0402 |
| 2J23 | 2238 869 15101 | 100pF 5% 50V 0402 | 2M31 | 4822 124 12095 | 100μF 20% 16V | 3215 | 3198 031 02710 | 270Ω 5% 0.1W 0402 |
| 2J26 | | 100pF 5% 50V 0402 | 2M32 | 4822 124 12095 | | 3216 | | 330Ω 5% 0402 0.01W |
| 2J27 | | · | 2M56 | 4822 124 12095 | | 3217 | | |
| | | 100pF 5% 50V 0402 | | | | | 4822 117 13548 | |
| 2J28 | | 100pF 5% 50V 0402 | 2M65 | | 100nF 10% 16V 0402 | 3218 | 4822 117 11297 | |
| 2J29 | 2238 869 15101 | 100pF 5% 50V 0402 | 2M66 | 4822 124 12095 | 100μF 20% 16V | 3219 | 4822 117 13545 | 100Ω 1% 0402 |
| 2J30 | 2020 552 96618 | 1nF 10% 50V 0402 | 2M67 | 3198 035 71040 | 100nF 10% 16V 0402 | 3220 | 3198 031 04730 | |
| 2J31 | | 100pF 5% 50V 0402 | 2M68 | 4822 124 12095 | | 3222 | 4822 117 13545 | |
| 2J35 | | 1nF 10% 50V 0402 | 2N01 | | 100nF 10% 16V 0402 | 3223 | | |
| | | | | | | | | 10Ω 5% 0.01W 0402 |
| 2K00 | | 1nF 10% 50V 0402 | 2N02 | | 100nF 10% 16V 0402 | 3224 | 3198 031 04720 | |
| 2K01 | | 1nF 10% 50V 0402 | 2N03 | | 1μF 20% 6.3V 0402 | 3225 | 3198 031 04720 | 4.7kΩ 5% 0402 |
| 2K02 | 2238 869 15109 | 10pF 5% 50V 0402 | 2N04 | 2020 552 96618 | 1nF 10% 50V 0402 | 3226 | 4822 117 13545 | 100Ω 1% 0402 |
| 2K03 | 2238 869 15109 | 10pF 5% 50V 0402 | 2N05 | 3198 035 71040 | 100nF 10% 16V 0402 | 3227 | 4822 117 13545 | |
| 2K04 | | 10pF 5% 50V 0402 | 2N06 | | 100nF 10% 16V 0402 | 3229 | 3198 031 04720 | |
| 2K05 | | 10pF 5% 50V 0402 | 2N07 | | 100nF 10% 16V 0402 | | | |
| | | | | | | 3230 | | 10kΩ 5% 0.01W 0402 |
| 2K06 | | 100pF 5% 50V 0402 | 2N08 | | 100nF 10% 16V 0402 | 3231 | | 2.2kΩ 5% 0.01W 0402 |
| 2K07 | | 100pF 5% 50V 0402 | 2N09 | | 100nF 10% 16V 0402 | 3232 | 3198 031 03320 | |
| 2K08 | 2020 552 00035 | 2.2µF 6.3V 10% 0603 | 2N10 | 3198 035 71040 | 100nF 10% 16V 0402 | 3233 | 3198 031 03320 | 3.3kΩ 5% 0402 |
| 2K10 | 2238 869 15101 | 100pF 5% 50V 0402 | 2N11 | 2238 869 15101 | 100pF 5% 50V 0402 | 3234 | 3198 031 04720 | 4.7kΩ 5% 0402 |
| 2K11 | 2238 869 15101 | 100pF 5% 50V 0402 | 2N12 | 2238 869 15101 | 100pF 5% 50V 0402 | 3235 | 3198 031 04720 | 4.7kΩ 5% 0402 |
| 2K12 | | 2.2µF 6.3V 10% 0603 | 2N13 | | 100pF 5% 50V 0402 | 3236 | 3198 031 04720 | |
| 2K13 | | 100pF 5% 50V 0402 | 2N14 | | 100pF 5% 50V 0402 | 3238 | 4822 117 13545 | |
| 2K14 | | 100pF 5% 50V 0402 | 2N15 | | 100pF 5% 50V 0402 | 3239 | | |
| 2K16 | | | | | | | 4822 117 13545 | |
| | | 100pF 5% 50V 0402 | 2N16 | | 100pF 5% 50V 0402 | 3240 | 2322 704 61002 | |
| 2K17 | | 100pF 5% 50V 0402 | 2P01 | | 2.2μF 6.3V 10% 0603 | 3241 | 4822 117 13545 | |
| 2K18 | 2238 869 15101 | 100pF 5% 50V 0402 | 2P02 | 3198 035 71040 | 100nF 10% 16V 0402 | 3242 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 |
| 2K19 | 2020 552 96618 | 1nF 10% 50V 0402 | 2P03 | 3198 035 71040 | 100nF 10% 16V 0402 | 3243 | 3198 031 04720 | 4.7kΩ 5% 0402 |
| 2K20 | 2020 552 96618 | 1nF 10% 50V 0402 | 2P04 | 3198 035 71040 | 100nF 10% 16V 0402 | 3245 | 3198 031 02240 | 220kΩ 5% 0.1W 0402 |
| 2K21 | | 100pF 5% 50V 0402 | 2P05 | | 100nF 10% 16V 0402 | 3246 | 3198 031 04720 | |
| 2K22 | | 100pF 5% 50V 0402 | 2P06 | | 100nF 10% 16V 0402 | 3247 | 4822 117 13545 | |
| 2K23 | | 100pF 5% 50V 0402 | 2P07 | | 100nF 10% 16V 0402 | 3248 | 4822 117 13545 | |
| 2K24 | | | 2P08 | | | | | |
| | | 100pF 5% 50V 0402 | | | 100nF 10% 16V 0402 | 3249 | 3198 031 04720 | |
| 2K25 | | 100pF 5% 50V 0402 | 2P09 | | 100nF 10% 16V 0402 | 3250 | 4822 117 13545 | |
| 2K26 | | 100pF 5% 50V 0402 | 2P10 | 3198 035 71040 | 100nF 10% 16V 0402 | 3251 | 4822 117 13545 | 100Ω 1% 0402 |
| 2K27 | 2238 869 15101 | 100pF 5% 50V 0402 | 2P11 | 3198 035 71040 | 100nF 10% 16V 0402 | 3252 | 4822 117 13545 | 100Ω 1% 0402 |
| 2K28 | 2238 869 15101 | 100pF 5% 50V 0402 | 2P12 | 3198 035 71040 | 100nF 10% 16V 0402 | 3253 | 4822 117 13545 | 100Ω 1% 0402 |
| 2L02 | 2020 552 96637 | 10μF 10% 6.3V 0805 | 2P13 | 3198 035 71040 | 100nF 10% 16V 0402 | 3255 | 4822 117 13605 | Jumper 0402 |
| 2L03 | | 100nF 10% 16V 0402 | 2P14 | 3198 035 71040 | 100nF 10% 16V 0402 | 3256 | 4822 117 13605 | |
| 2L04 | | 100nF 10% 16V 0402 | 2P15 | 4822 124 12095 | | 3257 | 4822 117 13605 | |
| 2L05 | | 100nF 10% 16V 0402 | 2P16 | | | | | |
| | | | | | 100nF 10% 16V 0402 | 3258 | 4822 117 13548 | |
| 2L06 | | 100nF 10% 16V 0402 | 2P17 | | 2.2μF 6.3V 10% 0603 | 3259 | 4822 117 13548 | |
| 2L07 | | 10μF 10% 6.3V 0805 | 2P18 | | 2.2μF 6.3V 10% 0603 | 3260 | 4822 117 13548 | |
| 2L08 | 3198 035 71040 | 100nF 10% 16V 0402 | 2P19 | 3198 035 71040 | 100nF 10% 16V 0402 | 3262 | 4822 117 13601 | 22kΩ 5% 0402 |
| 2L09 | 3198 035 71040 | 100nF 10% 16V 0402 | 2P20 | 3198 035 71040 | 100nF 10% 16V 0402 | 3263 | 2322 702 70398 | 3.9Ω 5% 0603 |
| 2L10 | | 100nF 10% 16V 0402 | 2P21 | | 100nF 10% 16V 0402 | 3264 | 4822 117 13601 | |
| 2L11 | | 100nF 10% 16V 0402 | 2P22 | | 2.2µF 6.3V 10% 0603 | 3265 | 2322 702 70398 | |
| 2L13 | | 47nF 5% 16V 0402 | | | | | | |
| | | | 2P23 | | 100nF 10% 16V 0402 | 3266 | | 5.6kΩ 5% 0.01W 0402 |
| 2L17 | | 47nF 5% 16V 0402 | 2P24 | | 100nF 10% 16V 0402 | 3267 | | 5.6kΩ 5% 0.01W 0402 |
| 2L20 | | 100nF 10% 16V 0402 | 2P25 | | 100nF 10% 16V 0402 | 3268 | 4822 117 13545 | |
| 2L21 | | 100nF 10% 16V 0402 | 2P26 | | 100nF 10% 16V 0402 | 3272 | 3198 031 04720 | 4.7kΩ 5% 0402 |
| 2L22 | 2020 552 96637 | 10μF 10% 6.3V 0805 | 2P27 | 3198 035 71040 | 100nF 10% 16V 0402 | 3273 | 4822 117 13548 | |
| 2L23 | | 100nF 10% 16V 0402 | 2P28 | | 100nF 10% 16V 0402 | 3274 | 3198 031 03910 | |
| 2L24 | | 100nF 10% 16V 0402 | 2P29 | | 100nF 10% 16V 0402 | 3275 | 4822 117 13545 | |
| 2L26 | | 220nF 10% 6.3V 0402 | 2P30 | | 100nF 10% 16V 0402 | 3276 | | |
| 2L27 | | | 2P31 | | | | 3198 031 07590 | |
| 2L28 | 4822 124 23002 | | | | 100nF 10% 16V 0402 | 3277 | | 1.2kΩ 5% 0.01W 0402 |
| | 4822 124 23002 | | 2P32 | | 100nF 10% 16V 0402 | 3280▲ | 4822 117 11151 | |
| 2L29 | 4822 124 23002 | | 2P33 | | 100nF 10% 16V 0402 | 3281 | 3198 031 03930 | |
| 2L30 | 4822 124 23002 | | 2P34 | | 100nF 10% 16V 0402 | 3285 | 4822 117 13605 | Jumper 0402 |
| 2L31 | 4822 124 12095 | | 2P35 | | 100nF 10% 16V 0402 | 3286 | 4822 117 13545 | 100Ω 1% 0402 |
| 2L32 | 4822 124 12095 | 100μF 20% 16V | 2P36 | | 10pF 5% 50V 0402 | 3292▲ | 3198 031 01230 | |
| 2L33 | | 100nF 10% 16V 0402 | 2P37 | | 10pF 5% 50V 0402 | 3294▲ | 3198 031 04730 | |
| 2L34 | | 100nF 10% 16V 0402 | 2P38 | | 10pF 5% 50V 0402 | 3295▲ | 4822 117 11297 | |
| 2L37 | | 68pF 5% 50V 0402 | 2P39 | | 10pF 5% 50V 0402 | 3431 | | |
| 2L39 | | | | | | | 4822 117 13548 | |
| | | 82pF 5% 50V 0402 | 2P40 | | 10pF 5% 50V 0402 | 3451 | 3198 031 04720 | |
| 2M00 | | 100nF 10% 16V 0402 | 2P41 | | 10pF 5% 50V 0402 | 3453 | 4822 117 13545 | |
| 2M01 | | 100nF 10% 16V 0402 | 2P42 | | 10pF 5% 50V 0402 | 3454 | 4822 117 13545 | |
| 2M02 | | 100nF 10% 16V 0402 | 2P43 | | 10pF 5% 50V 0402 | 3455 | 4822 117 13545 | |
| 2M03 | 31 9 8 035 71040 | 100nF 10% 16V 0402 | 2P44 | | 10pF 5% 50V 0402 | 3456 | 4822 117 13545 | |
| 2M04 | | 100nF 10% 16V 0402 | 2P45 | | 10pF 5% 50V 0402 | 3458 | 4822 117 13545 | |
| 2M05 | | 100nF 10% 16V 0402 | l | | , | 3459 | 4822 117 13545 | |
| 2M06 | | 100nF 10% 16V 0402 | l | | | 3461 | 4822 117 13545 | |
| | | | | | | 3462 | 4822 117 13545 | |
| 2M07 | | 100nF 10% 16V 0402 | | | | J702 | | |
| 2M07 2M08 | 3198 035 71040 | 100nF 10% 16V 0402 | | | 1 | | | |
| 2M07 2M08 2M09 | 3198 035 71040 3198 035 71040 | 100nF 10% 16V 0402 100nF 10% 16V 0402 100nF 10% 16V 0402 | 3103 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3501 3502 | 4822 117 13543 3198 031 04730 | 470Ω 5% 0402 |

| | | | | | _ | | | |
|--------------|----------------------------------|--|--------------|----------------------------------|--|--------------|----------------------------------|---|
| 3604 | 4822 117 13601 | | 3C04 | | 4 x 10kΩ 5% 1206 | 3G28 | | 75Ω 5% 0.062W |
| 3605 | 4822 117 13601 | | 3C05 3C06 | | 10kΩ 5% 0.01W 0402 4 x 10kΩ 5% 1206 | 3G29 3G30 | | 330Ω 5% 0.062W 68Ω 5% 0.063W 0603 |
| 3609 3610 | 4822 117 13601 4822 117 11297 | | 3C06 3C07 | | 4 x 10kΩ 5% 1206 4 x 10kΩ 5% 1206 | 3G31 | 4822 051 30759 | |
| 3611 | 4822 117 11297 | 100kΩ 5% 0.1W | 3C08 | 3198 031 11030 | 4 x 10kΩ 5% 1206 | 3G32 | 4822 051 30102 | |
| 3612 | 4822 117 13601 | | 3C09 | | 4 x 10kΩ 5% 1206 4 x 10kΩ 5% 1206 | 3G33 3G34 | 4822 051 30101 4822 051 30102 | 100Ω 5% 0.062W |
| 3616 3617 | 4822 117 13548 4822 117 13548 | | 3C10 3C16 | | 4 x 10kΩ 5% 1206 4 x 10kΩ 5% 1206 | 3G34 3G37 | | 150Ω 5% 0.062W |
| 3619 | | 10kΩ 5% 0.01W 0402 | 3C17 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3G38 | 4822 051 30103 | 10kΩ 5% 0.062W |
| 3620 | | 10kΩ 5% 0.01W 0402 | 3C18 | | 10kΩ 5% 0.01W 0402 | 3G39 | 4822 117 12891 | 220kΩ 1% 15kΩ 5% 0.062W |
| 3628 3629 | 4822 117 13606 4822 117 13601 | 10kΩ 5% 0.01W 0402 | 3E00 3E01 | 2322 705 70569 2322 705 70569 | | 3G40 3G41 | | 150Ω 5% 0.062W |
| 3630 | | 2.2kΩ 5% 0.01W 0402 | 3E02 | 2322 705 70569 | 56Ω 5% 0402 | 3G42 | 4822 051 30103 | 10kΩ 5% 0.062W |
| 3631 | | 2.2kΩ 5% 0.01W 0402 | 3E06 | 3198 031 04730 | | 3G43 | 4822 117 12891 | 220kΩ 1% 15kΩ 5% 0.062W |
| 3632 3633 | 2322 705 70569 2322 705 70569 | | 3E07 3E08 | 3198 031 04730 3198 031 04730 | | 3G44 3G45 | | 75Ω 5% 0.062W |
| 3708 | | 10kΩ 5% 0.01W 0402 | 3E09 | 3198 031 04730 | 47Ω 5% 0402 | 3G46 | | 100Ω 5% 0.062W |
| 3709 | | 6.8kΩ 5% 0.01W 0402 | 3E10 | 3198 031 04730 3198 031 04730 | | 3G47 3G48 | | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 |
| 3712 3713 | 2322 704 63302 | 5.6kΩ 1% 0.063W 0603 3.3kΩ 1% 0603 | 3E11 3E12 | | 10kΩ 5% 0.01W 0402 | 3G51 | | 27kΩ 5% 0.062W |
| 3716 | 3198 031 04720 | 4.7kΩ 5% 0402 | 3E13 | 4822 117 13597 | 330Ω 5% 0402 0.01W | 3G52 | | 6.8Ω 5% 0.062W |
| 3732 | 2322 704 61002 | | 3E14 3E15 | | 330Ω 5% 0402 0.01W 330Ω 5% 0402 0.01W | 3G53 3G54 | 4822 051 30689 4822 051 30102 | 68Ω 5% 0.063W 0603 |
| 3733 3734 | 2322 704 63302 4822 117 13602 | 2.2kΩ 5% 0.01W 0402 | 3E16 | | 330Ω 5% 0402 0.01W | 3G57 | 4822 051 30759 | |
| 3735 | 4822 117 13548 | 1kΩ 5% 0402 | 3E17 | | 330Ω 5% 0402 0.01W | 3G58 | | 100Ω5% 0.062W |
| 3736 | 3198 031 04720 | 4.7kΩ 5% 0402 1.2kΩ 5% 0.01W 0402 | 3E18 3E19 | 4822 117 13597 2322 705 70569 | 330Ω 5% 0402 0.01W | 3G59 3G60 | | 47kΩ1% 0.063W 0603 47kΩ1% 0.063W 0603 |
| 3740 3741 | | 1.2kΩ 5% 0.01W 0402 1.2kΩ 5% 0.01W 0402 | 3E20 | 2322 705 70569 | | 3G96 | | 47kΩ1% 0.063W 0603 |
| 3742 | 3198 031 01530 | 15kΩ 5% 0.01W 0402 | 3E21 | 2322 705 70569 | | 3G99 | | 47kΩ1% 0.063W 0603 |
| 3743 | 4822 117 13601 | | 3E22 3E23 | 4822 117 13632 3198 031 08210 | 100kΩ 1% 0603 0.62W | 3J05 3K00 | 3198 031 06890 4822 117 13545 | |
| 3750 3751 | 4822 117 13601 3198 021 31080 | | 3E23 3E24 | 4822 117 13543 | | 3K00 | 4822 117 13545 | |
| 3752 | 3198 021 31080 | 1Ω 5% 0603 | 3E25 | 2322 705 70399 | $39\Omega 5\% 0402$ | 3K02 | | 10kΩ5% 0.01W 0402 |
| 3753 | 2322 704 61002 | | 3E26 | 3198 031 02290 2322 705 70399 | 22Ω 5% 0.1W 0402 | 3K03 3K05 | | 15kΩ5% 0.01W 0402 10kΩ5% 0.01W 0402 |
| 3754 3759 | 2322 704 63302 3198 031 01230 | | 3E27 3E28 | | 22Ω 5% 0.1W 0402 | 3K06 | | 15kΩ5% 0.01W 0402 |
| 3761 | 4822 117 13545 | 100Ω 1% 0402 | 3E29 | 2322 705 70399 | | 3K07 | 2322 705 70399 | |
| 3800 | | 10kΩ 5% 0.01W 0402 | 3E30 | 3198 031 02290 4822 117 13545 | 22Ω 5% 0.1W 0402 | 3K09 3K11 | 2322 705 70399 3198 031 06890 | |
| 3801 3802 | | 4 x 22Ω 5% 1206 4 x 22Ω 5% 1206 | 3E31 3E32 | 4822 117 13545 | | 3K12 | 3198 031 06890 | |
| 3803 | 2350 035 10229 | 4 x 22Ω 5% 1206 | 3E33 | 4822 117 13545 | 100Ω 1% 0402 | 3K13 | 3198 031 06890 | |
| 3804 | | 4 x 22Ω 5% 1206 | 3E34 3E35 | 4822 117 13545 4822 117 13545 | | 3L00 3L04 | 4822 117 13548 4822 117 13605 | |
| 3805 3806 | | 4 x 22Ω 5% 1206 4 x 22Ω 5% 1206 | 3E36 | 4822 117 13545 | | 3L05 | | 150Ω5% 0.01W 0402 |
| 3807 | 2350 035 10229 | 4 x 22Ω 5% 1206 | 3E37 | | 22Ω 5% 0.1W 0402 | 3L06 | 4822 117 13605 | |
| 3808 | | 4 x 22Ω 5% 1206 | 3E38 | 4822 117 13545 | | 3L10 3L11 | | 330Ω5% 0402 0.01W 150Ω5% 0.01W 0402 |
| 3809 3810 | | 4 x 22Ω 5% 1206 4 x 22Ω 5% 1206 | 3E39 3E41 | 4822 117 13545 4822 117 13545 | | 3L12 | 4822 117 13548 | |
| 3811 | | 4 x 22Ω 5% 1206 | 3E42 | 4822 117 13545 | 100Ω 1% 0402 | 3L16 | 4822 117 13605 | Jumper O402 |
| 3812 | | 4 x 22Ω 5% 1206 | 3E43 3E44 | 4822 117 13545 4822 117 13545 | | 3L17 3L19 | | 150Ω5% 0.01W 0402 150Ω5% 0.01W 0402 |
| 3813 3814 | | 4 x 22Ω 5% 1206 22Ω 5% 0.1W 0402 | 3E45 | 4822 117 13545 | | 3L20 | | 150Ω5% 0.01W 0402 |
| 3815 | 3198 031 02290 | 22Ω 5% 0.1W 0402 | 3E49 | 3198 031 02290 | 22Ω 5% 0.1W 0402 | 3L21 | 4822 117 13602 | 2.2kΩ5% 0.01W 0402 |
| 3816 | | 22Ω 5% 0.1W 0402 10kΩ 5% 0.01W 0402 | 3E50 3E51 | 3198 031 04730 3198 031 04730 | | 3L22 3L24 | | 2.2kΩ5% 0.01W 0402 2.2kΩ5% 0.01W 0402 |
| 3817 3818 | | 10kΩ 5% 0.01W 0402 | 3E52 | 3198 031 04730 | | 3L25 | | 4 x 22Ω 5% 1206 |
| 3820 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3E53 | 3198 031 04730 | 47Ω 5% 0402 | 3L26 | | 4 x 22Ω 5% 1206 |
| 3822 | 4822 117 13545 3198 031 03320 | | 3E54 3E55 | 3198 031 04730 3198 031 04730 | | 3L27 3L28 | | 4 x 22\(aa22\) 5% 1206 4 x 22\(aa22\) 5% 1206 |
| 3824 3825 | | 4 x 10kΩ 5% 1206 | 3F00 | | 75Ω 5% 0.062W | 3L30 | | 22Ω5% 0.1W 0402 |
| 3826 | 3198 031 11030 | 4 x 10kΩ 5% 1206 | 3F09 | | 75Ω 5% 0.062W | 3L31 | | 22Ω 5% 0.1W 0402 |
| 3827 | | 10kΩ 5% 0.01W 0402 | 3F10 3F11 | 3198 021 31080 | 1Ω 5% 0603 75Ω 5% 0.062W | 3L32 3L33 | | 2.2kΩ5% 0.01W 0402 220Ω5% 0.01W 0402 |
| 3828 3829 | | 10kΩ 5% 0.01W 0402 10kΩ 5% 0.01W 0402 | 3F16 | | 10kΩ 5% 0.062W | 3L34 | 4822 117 13605 | |
| 3831 | 4822 117 13545 | 100Ω 1% 0402 | 3F17 | 4822 051 30103 | 10kΩ 5% 0.062W | 3L35 | | 220Ω5% 0.01W 0402 |
| 3832 | 4822 117 13545 | 100Ω 1% 0402 10Ω 5% 0.01W 0402 | 3F18 3F19 | 4822 051 30103 3198 021 31080 | 10kΩ 5% 0.062W | 3L36 3L37 | 3198 031 03320 3198 031 03320 | |
| 3833 3834 | | 10kΩ 5% 0.01W 0402 | 3F20 | | 100Ω 5% 0.062W | 3M01 | 2350 035 10689 | |
| 3835 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3F21 | | 1kΩ 5% 0.062W | 3M02 | 2350 035 10689 | |
| 3836 3837 | | 10kΩ 5% 0.01W 0402 10kΩ 5% 0.01W 0402 | 3F22 3F23 | | 10kΩ 5% 0.062W 1kΩ 5% 0.062W | 3M03 3M04 | 2350 035 10689 2350 035 10689 | |
| 3838 | | 10kΩ 5% 0.01W 0402 | 3F24 | | 10kΩ 5% 0.062W | 3M06 | | 4 x 220 5% 1206 |
| 3839 | 4822 117 13545 | 100Ω 1% 0402 | 3F25 | | 10kΩ 5% 0.062W | 3M07 | | 4 x 222 5% 1206 |
| 3840 | | 22Ω 5% 0.1W 0402 10kΩ 5% 0.01W 0402 | 3F26 3F27 | | 15kΩ 5% 0.062W 15kΩ 5% 0.062W | 3M08 3M09 | | 4 x 220 5% 1206 4 x 220 5% 1206 |
| 3841 3900 | 3198 031 03320 | | 3F28 | | 100Ω 5% 0.062W | 3M11 | 3198 031 04720 | |
| 3901 | 4822 117 13606 | 10k $Ω$ 5% 0.01W 0402 | 3F29 | | 100Ω 5% 0.062W | 3M13 | 3198 031 04720 | |
| 3902 | 4822 117 13606 4822 117 13545 | 10kΩ 5% 0.01W 0402 | 3G00 3G01 | | 150Ω 5% 0.062W 10kΩ 5% 0.062W | 3M14 3M15 | 4822 117 13545 4822 117 13545 | |
| 3903 3904 | 4822 117 13545 | | 3G02 | 4822 117 12891 | | 3M16 | 3198 031 04720 | |
| 3A00 | 3198 031 06890 | 68Ω 5% 0402 | 3G03 | 4822 051 30153 | 15kΩ 5% 0.062W | 3M26 | 4822 117 13605 | |
| 3A01 | 3198 031 06890 | | 3G04 3G05 | | 150Ω 5% 0.062W 10kΩ 5% 0.062W | 3M27 3M50 | 4822 117 13605 4822 117 13606 | Jump ₆ ⊘ 402 10kΩ;% 0.01W 0402 |
| 3A07 3A08 | | 10kΩ 5% 0.01W 0402 10kΩ 5% 0.01W 0402 | 3G05 3G06 | 4822 117 12891 | | 3M50 3M51 | | 10kΩ;% 0.01W 0402 |
| 3A10 | 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3G07 | 4822 051 30153 | 15kΩ 5% 0.062W | 3M52 | 4822 117 13606 | 10kΩ % 0.01W 0402 |
| 3A11 | | 10kΩ 5% 0.01W 0402 | 3G08 3G12 | | 150Ω 5% 0.062W | 3M53 3M54 | 4822 117 13546 4822 117 13546 | |
| 3A13 3A14 | | 10kΩ 5% 0.01W 0402 4.7kΩ 5% 0402 | 3G12 3G13 | 2122 118 06408 2122 118 06408 | | 3M55 | 4822 117 13546 | |
| 3B01 | 4822 117 12706 | 10kΩ 1% 0.063W 0603 | 3G14 | 2122 118 06408 | 91Ω 5% 0603 | 3M56 | 4822 117 13606 | 10kΩ% 0.01W 0402 |
| 3B02 | | 10kΩ 1% 0.063W 0603 | 3G15 3G16 | | 100Ω 5% 0.062W 100Ω 5% 0.062W | 3M57 3M58 | 4822 117 13546 | 47Ω5% 0402 10kΩ%6 0.01W 0402 |
| 3B03 | 2322 704 61501 4822 117 13606 | 10kΩ 5% 0.01W 0402 | 3G16 3G17 | | 100Ω 5% 0.062W | 3M59 | 4822 117 13546 | |
| 3C01 | 4822 117 13606 | $10k\Omega$ 5% 0.01W 0402 | 3G26 | 4822 051 30273 | 27kΩ 5% 0.062W | 3M78 | 4822 117 13548 | 1kΩ 5% 0 402 |
| 3C02 | 4822 117 13548 | TKL2 5% 0402 | 3G27 | 4822 051 30682 | 6.8Ω 5% 0.062W | 3M79 | 3198 031 03320 | 3.3KL15% 04V2 |

| 3M87 | 4822 117 13605 | | 4P07 | 4822 117 13605 | Jumper 0402 | 6205 | 4822 130 80622 | |
|--|--|---|--|--|--|---|--|--|
| 3M89 | | 22Ω 5% 0.1W 0402 | | | | 6430 | 9340 548 42115 | |
| 3M90 3N01 | | 22Ω 5% 0.1W 0402 10kΩ 5% 0.01W 0402 | | | | 6431 6601 | 4822 130 10838 | 1N4148WS SOD-323 |
| 3N02 | | 10kΩ 5% 0.01W 0402 | | | | 6708 | 3198 010 10720 | |
| 3N03 | | 10kΩ 5% 0.01W 0402 | 5101 | | 0.39μF 10% 0805 | 6709 | 9322 128 70685 | |
| 3N04 | | 10kΩ 5% 0.01W 0402 | 5103 | | 0.68μH 5% 1008 | 6712 | 3198 010 10730 | |
| 3N05 | | 10kΩ 5% 0.01W 0402 | 5107 5108 | | 100Ω 5% 0.062W 100Ω 5% 0.062W | 6733 | 9322 128 70685 | |
| 3N06 | | 10kΩ 5% 0.01W 0402 | 5201 | | Bead 30Ω at 100MHz | 6735 | 5322 130 34337 | |
| 3N07 | | 33kΩ 5% 0.062W | 5202 | | Bead 30Ω at 100MHz | 6736 | 9340 548 71115 | |
| 3N08 3N09 | 4822 117 13548 | 10kΩ 5% 0.01W 0402 | 5203 | | Bead 30Ω at 100MHz | 6740 6751 | 4822 130 10837 9322 128 70685 | |
| 3N10 | 4822 117 13603 | | 5204 | | Bead 120Ω 100MHz | 6E01 | 9322 102 64685 | |
| 3N11 | 4822 117 13546 | | 5205 | | Bead 30Ω at 100MHz | 6E03 | 9322 102 64685 | |
| 3N12 | | 10kΩ 5% 0.01W 0402 | 5206 5207 | | Bead 30Ω at 100MHz Bead 120Ω 100MHz | 6F00 | 4822 130 11397 | BAS316 |
| 3N13 | | 10kΩ 5% 0.01W 0402 | 5208 | | Bead 30Ω at 100MHz | 6F01 | 4822 130 11397 | |
| 3N14 | | 10kΩ 5% 0.01W 0402 | 5209 | | Bead 30Ω at 100MHz | 6G03 | 4822 130 11416 | |
| 3N15 3N16 | 4822 117 13546 4822 117 13546 | | 5210 | | Bead 30Ω at 100MHz | 6G04 6G05 | 4822 130 11416 4822 130 11416 | |
| 3N17 | 4822 117 13546 | | 5211 | | Bead 30Ω at 100MHz | 6G06 | 4822 130 11416 | |
| 3N18 | 4822 117 13546 | | 5212 | | Bead 30Ω at 100MHz | 6G07 | 4822 130 11416 | |
| 3N19 | | 10kΩ 5% 0.01W 0402 | 5213 5214 | | Bead 30Ω at 100MHz 1000μF 20% 7032 | 6G08 | 4822 130 11416 | |
| 3N20 | 4822 117 13546 | | 5216 | | Bead 30Ω at 100MHz | 6G09 | 4822 130 11416 | |
| 3N21 3N22 | 4822 117 13545 4822 117 13545 | | 5218▲ | | Bead 120Ω 100MHz | 6G10 | 4822 130 11416 | |
| 3N23 | 4822 117 13545 | | 5501 | 3198 018 31080 | | 6N01 | 9322 085 77685 | I LMG3 T00 |
| 3N24 | 4822 117 13545 | | 5704 | 4822 157 63635 | | DAGGERAS. | | |
| 3N25 | 4822 117 13545 | | 5709 | | 10μH 20% 0805 | ‱…JSoft | ware 42PF5520 | 0D/10 (See Product |
| 3N26 | 3198 031 04720 | | 5712 5713 | 2422 536 00339 | 33μ 20% 10μF 20% 10145 | Survey) | | |
| 3N27 | 4822 117 13546 | | 5730 | | 10μH 20% 0805 | 7050 | 2120 127 06251 | |
| 3N28 | 4822 051 30181 4822 117 13545 | 180Ω 5% 0.062W | 5733 | 2422 536 00689 | | 7050 | 3139 127 06351 3139 127 05623 | |
| 3N29 3N30 | 4822 117 13545 | | 5735 | | 1000μF 20% 7032 | 7055 | 3104 317 08891 | For LG Sets |
| 3N31 | 4822 117 13545 | | 5737 | 2422 535 94134 | | 7055 | 3104 317 08881 | |
| 3N32 | 4822 117 13545 | | 5738 | | Bead 120Ω 100MHz | | | |
| 3N33 | 4822 117 13545 | 100Ω 1% 0402 | 5752 5753 | 2422 535 94134 2422 536 00689 | | Soft | ware 42DF7520 | D/10 (See Product |
| 3N34 | 4822 117 13545 | | 5754 | 2422 535 94134 | | Survey) | Ware 721 1 / 520 | Di lo (See Flouduct |
| 3N35 | 4822 117 13545 | | 5900 | | Bead 120Ω 100MHz | Sui vey) | | |
| 3N46 3N47 | 4822 117 13545 4822 117 13545 | | 5901 | | Bead 120Ω 100MHz | 7050 | 3139 127 04359 | For SDI Sets |
| 3P01 | 3198 031 04720 | | 5902 | | Bead 120Ω 100MHz | 7050 | 3139 127 06351 | For FHP Sets |
| 3P03 | 4822 117 13546 | | 5903 | | Bead 120Ω 100MHz | 7051 | 3104 317 09051 | |
| 3P04 | 4822 117 13545 | | 5904 5905 | | Bead 120Ω 100MHz Bead 120Ω 100MHz | 7051 | 3139 127 05862 | |
| 3P04 | 4822 117 13605 | | 5906 | | Bead 120Ω 100MHz | 7052 7055 | 3104 317 09141 | For SDI & FHP Sets |
| 3P05 | 4822 117 13545 | | 5907 | | Bead 120Ω 100MHz | 7055 | 3139 127 05841 | |
| 3P05 | | | | | | | | |
| | | Jumper 0402 | 5908 | | Bead 120Ω 100MHz | 7000 | | TOTTIT Dets |
| 3S00 | 4822 117 12925 | 47kΩ 1% 0.063W 0603 | | 2422 549 45333 | | | | TOTTIN Gets |
| | 4822 117 12925 4822 117 12925 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 | 5908 5909 5910 | 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz | C EUUUUU | | TOTTIN GELS |
| 3S00 3S03 | 4822 117 12925 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz | C Environ | | |
| 3S00 3S03 4211 4212 4440 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 30Ω at 100MHz | | 3198 010 42310 9340 550 49115 | BC847BW |
| 3S00 3S03 4211 4212 4440 4441 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 30Ω at 100MHz Bead 120Ω 100MHz | 7101 7201 7202 | 3198 010 42310 9340 550 49115 9340 550 49115 | BC847BW PUMH7 PUMH7 |
| 3S00 3S03 4211 4212 4440 4441 4501 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 30Ω at 100MHz | 7101 7201 7202 7206 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 | BC847BW PUMH7 PUMH7 BC856B |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P |
| 3S00 3S03 4211 4212 4440 4441 4501 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 | 47kû 1% 0.063W 0603 47kû 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 120Ω 100MHz Bead 30Ω at 100MHz Bead 30Ω at 100MHz Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 7209 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kû 1% 0.063W 0603 47kû 1% 0.063W 0603 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kû 1% 0.063W 0603 47kû 1% 0.063W 0603 Jumper 0402 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 7209 7210 7214 7215 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC847BW BC969-25 |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K04 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7201 7201 7202 7206 7207 7208 7209 7210 7214 7215 7216 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 3198 010 42310 9339 693 90135 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC847BS |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K04 4K05 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 | 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7208 7209 7210 7214 7215 7216 7217 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC7B9-25 BC847BS For SW see item 7050 |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K04 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F01 5F02 5F03 5G02 5J01 5J02 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7207 7209 7210 7214 7215 7216 7217 7219 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC749-25 BC847BS For SW see item 7050 74HC4053D |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K05 4L02 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kû 1% 0.063W 0603 47kû 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J03 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BC847BS For SW see item 705D 74HC4053D PDTC114ET |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K04 4K05 4L02 4M00 4M01 4M01 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J03 5J04 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 42896 2422 549 42896 2422 549 45333 2422 549 42896 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7207 7209 7210 7214 7215 7216 7217 7219 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BC969-25 BC847BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K04 4K05 4L02 4M00 4M01 4M02 4M03 | 4822 117 12925 4822 117 12925 4822 117 13605 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J03 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 A 7430 7430 7430 7501 7502 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4K04 4J01 4K04 4L02 4M00 4M01 4M01 4M02 4M03 4M05 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kû 1% 0.063W 0603 47kû 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F01 5F02 5F03 5G02 5J01 5J02 5J03 5J04 5L00 5L01 5L02 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7101 7201 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 7430 7436 7502 7503 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BC947BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4K04 4J01 4K05 4L02 4M00 4M01 4M02 4M03 4M05 4M08 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J03 5J04 5L00 5L01 5L02 5M00 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 2422 549 45333 | Bead 120Ω 100MHz | 7201 7201 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 A 7430 7436 7501 7502 7503 7504 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BC969-25 BC847BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW |
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| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K05 4L02 4M00 4M01 4M02 4M03 4M05 4M08 4M09 4M10 4M10 4M10 4M10 4M17 4N01 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J02 5J03 5J02 5J03 5J02 5J03 5J00 5L00 5L01 5L00 5M01 5M00 5M00 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7209 7210 7215 7216 7217 7219 7430 7502 7504 7502 7506 7600 7602 7603 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 3198 010 42310 9351 870 00118 9351 870 00118 9352 183 05668 9351 742 70118 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BC969-25 BC847BS For SW see item 705D 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW 74HC573PW 74HC573PW 74HC573PW 75482ID 74HC08PW BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K05 4L02 4M00 4M01 4M05 4M05 4M05 4M08 4M10 4M16 4M16 4M17 4N01 4N01 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J03 5J04 5L00 5L01 5L02 5M00 5M01 5M02 5M03 5M03 5M03 5M03 | 2422 549 45333 | Bead 120Ω 100MHz | 7101 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 7430 7436 7501 7502 7503 7504 7505 7506 7601 7602 7603 7604 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 9322 201 05671 9322 199 16668 9322 130 5668 9322 130 5668 9351 870 00118 9351 870 00118 9351 870 00118 9351 742 70118 3198 010 42310 3198 010 42310 | BC847BW PUMH7 PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC4053D PSC847BW 74HC590T BC847BW 74HC573PW 74HC573PW TS482ID 74HC08PW BC847BW BC847BW BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4A04 4J01 4K05 4L02 4M00 4M01 4M02 4M03 4M05 4M08 4M09 4M10 4M10 4M10 4M10 4M17 4N01 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5G02 5J01 5J02 5J01 5J02 5J01 5J02 5J01 5L02 5M01 5M02 5M00 5M01 5M02 5M03 5M04 5M04 5M05 5M04 5M05 5N01 5N02 | 2422 549 45333 2422 549 45333 2422 549 45333 4822 157 11716 2422 549 45333 | Bead 120Ω 100MHz Bead 30Ω at 100MHz Bead 30Ω at 100MHz | 7101 7202 7206 7207 7208 7209 7210 7214 7215 7216 7217 7219 7430 7430 7430 7430 7501 7502 7503 7504 7602 7603 7604 7605 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 3198 010 42310 9351 870 00118 9351 870 00118 9351 870 00118 9351 742 70118 3198 010 42310 9340 310 50215 | BC847BW PUMH7 PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BCP69-25 BCP69-25 BC74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW 74HC573PW 74HC573PW 75482ID 74HC08PW BC847BW BC847BW BC847BW PDTA143ET |
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| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4K04 4J01 4K05 4M00 4M01 4M02 4M03 4M08 4M09 4M10 4M17 4N01 4N02 4N03 4N10 4N17 4N01 4N05 4N06 4N17 4N01 4N05 4N06 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N11 4N12 4N13 4N14 4N15 4N16 4N17 4N19 4N10 4N11 4N11 4N11 4N12 4N13 4N16 4N17 4N11 4N12 4N11 4N12 4N11 4N12 4N12 4N13 4N14 4N15 4N16 4N17 4N18 4N19 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E01 5E02 5E03 5F03 5F03 5F03 5G02 5J01 5J02 5J03 5J04 5L00 5L01 5L02 5M00 5M00 5M01 5M02 5M03 5M04 5M05 5M01 5M05 5N01 5N02 5N03 5N04 5N05 5P01 5P02 5P01 5P02 5P03 5N04 5N05 5N01 5N05 5N01 5N05 5N05 5N06 | 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 | Bead 120Ω 100MHz Bead 30Ω at 100MHz | 7101 7201 7202 7206 7207 7208 7209 7210 7211 7215 7216 7217 7219 ▲ 7430 7436 7501 7503 7504 7503 7504 7505 7606 7601 7602 7603 7604 7605 7606 7708 7710 7730 7735 7738 7741 7742 7752 7758 7801 7900 7900 7900 7A00 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 3198 010 42310 9351 870 00118 9322 199 16668 3198 010 42310 9351 870 00118 9321 183 05668 9351 742 70118 3198 010 42310 9340 310 50215 9340 425 20115 9322 219 107668 4822 130 42804 9322 139 11568 9322 219 57671 9322 142 88668 9322 119 16668 9322 119 16668 9322 129 57671 9322 142 88668 9322 759 98118 3198 010 42310 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BC969-25 BC847BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW T4HC573PW T4HC573PW T5482ID 74HC08PW BC847BW BC847BW BC847BW DTA143ET BC847BS LF33CPT L5973D IC SM L5970D BC817-25 L78M08CDT BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4502 4504 4511 4801 4801 4801 4804 4J01 4K05 4L02 4M00 4M05 4M05 4M05 4M05 4M08 4M10 4M16 4M16 4M17 4N01 4N02 4N03 4N05 4N08 4N10 4M16 4M17 4N01 4N05 4N06 4N17 4N08 4N07 4N08 4N09 4N10 4N11 4N12 4N12 4N12 4N12 4N20 4N21 | 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E01 5E02 5E03 5F03 5F01 5F02 5F03 5F02 5J01 5J02 5J03 5J04 5J00 5J01 5J02 5J03 5M01 5M02 5M01 5M02 5M03 5M04 5M05 5N01 5N03 5N04 5N05 5F03 5F03 5F03 5F06 5F03 5F09 5M01 5M02 5M03 5M04 5N05 5F03 5F03 5F03 5F03 5F03 5F04 5F03 5F03 5F03 5F03 5F03 5F03 5F03 5F04 5F03 5F03 5F03 5F03 5F03 5F04 5F03 5F03 5F03 5F04 5F04 5F04 5F04 5F05 5F04 5F04 5F04 | 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 4822 157 11716 | Bead 120Ω 100MHz Bead 30Ω at 100MHz | 7101 7202 7206 7207 7208 7209 7210 7215 7216 7217 7219 7430 7436 7501 7502 7503 7504 7505 7506 7601 7602 7603 7604 7505 7506 7708 7717 7019 7007 7017 7019 7007 7007 7007 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 3198 010 42310 9351 870 00118 9351 870 00118 9351 870 00118 9351 870 00118 9351 870 00118 9351 742 70118 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 5322 209 90529 4822 130 11155 9340 425 20115 | BC847BW PUMH7 PUMH7 BC856B M24C16-WMN6P BC847BW BC847BW BC847BW BC969-25 BC969-25 BC847BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW T4HC573PW T4HC573PW T5482ID 74HC08PW BC847BW BC847BW BC847BW DTA143ET BC847BS LF33CPT L5973D IC SM L5970D BC817-25 L78M08CDT BC847BW |
| 3S00 3S03 4211 4212 4440 4441 4501 4502 4504 4511 4801 4K04 4J01 4K05 4M00 4M01 4M02 4M03 4M08 4M09 4M10 4M17 4N01 4N02 4N03 4N10 4N17 4N01 4N05 4N06 4N17 4N01 4N05 4N06 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N10 4N11 4N12 4N13 4N14 4N15 4N16 4N17 4N19 4N10 4N11 4N11 4N11 4N12 4N13 4N16 4N17 4N11 4N12 4N11 4N12 4N11 4N12 4N12 4N13 4N14 4N15 4N16 4N17 4N18 4N19 | 4822 117 12925 4822 117 12925 4822 117 13605 | 47kΩ 1% 0.063W 0603 47kΩ 1% 0.063W 0603 Jumper 0402 | 5908 5909 5910 5911 5A00 5C00 5E01 5E02 5E03 5F00 5F01 5F02 5F03 5F03 5J01 5J02 5J01 5J02 5J01 5J02 5J01 5J02 5J01 5J02 5J01 5J02 5J01 5J02 5J03 5J04 5L00 5L01 5L00 5L01 5L00 5L01 5M02 5M03 5M04 5M05 5N01 5N02 5N03 5N04 5N05 5P01 5P02 5P03 5P01 5N05 5P01 5P02 5N03 5N04 5N05 5P01 5P05 5P06 → → → → → → → → → → → → → → → → → → → | 2422 549 45333 2422 549 15333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 45333 2422 549 171716 2422 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 157 11716 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 24822 130 11416 | Bead 120Ω 100MHz Bead 30Ω at 100MHz | 7101 7202 7206 7207 7208 7209 7210 7215 7216 7217 7219 7430 7436 7501 7502 7503 7504 7505 7506 7601 7602 7603 7604 7505 7506 7708 7717 7019 7007 7017 7019 7007 7007 7007 | 3198 010 42310 9340 550 49115 9340 550 49115 4822 130 60373 9322 214 45668 3198 010 42310 3198 010 42310 9339 693 90135 9340 425 20115 4822 209 60792 4822 130 11155 9352 607 39118 9322 199 16668 9322 201 05671 9322 199 16668 3198 010 42310 9351 870 00118 9351 870 00118 9351 870 00118 9351 870 00118 9351 870 00118 9351 742 70118 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 5322 199 16668 9322 191 07668 9322 191 07668 9322 193 16668 9322 191 07668 9322 191 07668 9322 191 07668 9322 202 34668 9322 191 07668 9322 219 17668 9322 219 17668 9322 219 17668 9322 219 17668 9322 219 17668 9322 219 17668 | BC847BW PUMH7 PUMH7 BC8566B M24C16-WMN6P BC847BW BC847BW BC847BW BC847BW BC969-25 BC699-25 BC847BS For SW see item 7050 74HC4053D PDTC114ET 74LVC14APW M74HC590T CY62256LL-70ZC M74HC590T BC847BW 74HC573PW 74HC573PW 754B2ID 74HC08PW BC847BW |

| 7C00 | | For SW see item 7051 | 3703 | | 8.2kΩ 5% 0.062W 0603 | 7712 | 3198 010 42310 | |
|--|--|--|--|--|---|---|--|---|
| 7C01 | | M24C32-WMN6P | 3704 | | 100kΩ 1% 0603 0.62W | 7713 | 3198 010 42310 | BC847BW |
| 7C02 7E00 | 9322 215 39685 9322 195 23668 | | 3705 3706 | | 2.2kΩ 5% 0.062W 6.8Ω 5% 0.062W | - | | |
| 7E01 | 9322 199 80668 | | 3707 | | 39kΩ 5% 0.062W | LED Pa | nel [J] | |
| 7E02 | 9322 199 56668 | | 3708 | | 47Ω 5% 0.062W | | | |
| 7E03 | 4822 209 60792 9352 607 39118 | | 3709 3710 | | 2.7kΩ 5% 0.062W 39kΩ 5% 0.062W | Various | | |
| 7E04 7E05 | 9352 607 39118 | | 3711 | | 5.6Ω 5% 5% 2512 | l | | |
| 7F03 | 0002 001 00110 | For SW see item 7055 | 3712 | | 2.7kΩ 5% 0.062W | 0345 1040 | | Connector 6p m TSOP34836YA1 |
| 7G03 | 3198 010 42310 | | 3713 | | 3.3Ω 5% 0.062W | 1040 | 9322 200 0 1007 | 130P34030TAT |
| 7G05 | 3198 010 42310 | | 3714 3715 | | 6.8Ω 5% 0.062W 5.6Ω 5% 5% 2512 | 11 | | |
| 7G10 7L01 | 4822 209 60792 3198 010 42310 | | 3716 | | 100kΩ 1% 0603 0.62W | | | |
| 7L02 | 3198 010 42310 | | 3717 | | 2.2kΩ 5% 0.062W | 2040 | 4822 124 12095 | 100μF 20% 16V |
| 7L03 | 3198 010 42310 | | 3718 | | 560Ω 5% 0.062W | | | · |
| 7L04 7L05 | 9322 212 77672 4822 209 17398 | MST9883C-LF-110 | 3719 3720 | | 120kΩ 5% 0.062W 47Ω 5% 0.062W | -w- | | |
| 7L05 | 9965 000 04199 | | 3721 | | 47Ω 5% 0.062W | | | |
| 7L07 | 9965 000 04199 | | 3722 | 4822 051 30124 | 120kΩ 5% 0.062W | 3040 3051 | | 330Ω 5% 0402 0.01W 220Ω 5% 0.062W |
| 7M00 | | T6TU5XBG-0001 | 3723 | | 47Ω 5% 0.062W | 3061 | | 220Ω 5% 0.062W |
| 7M01 7M03 | 9322 206 19672 9322 170 14668 | MSM56V16160F-7T3-FG | 3724 3725 | | 1kΩ 5% 0.062W 47kΩ 1% 0.063W 0603 | 3063 | | 10kΩ 5% 0.01W 0402 |
| 7N03 | 3322 170 14000 | For SW see item 7055 | 3726 | | 15kΩ 5% 0.062W | 3078 | | 2.2MΩ 5% 0.1W 0402 |
| 7N02 | | EP1C12F256C8N | 3727 | | 10kΩ 5% 0.062W | 9012 9041 | 4822 117 13605 4822 117 13605 | |
| 7N03 | 9340 425 20115 | | 3728 3729 | | 15kΩ 5% 0.062W 47kΩ 1% 0.063W 0603 | 9042 | 4822 117 13605 | |
| 7N04 7P01 | 9322 170 14668 | THC63LVDF84B LF15ABDT | 3730 | | 22kΩ 5% 0.062W | 9062 | 4822 117 13605 | |
| 7P02 | | THC63LVDM83R | 3731 | | 1kΩ 5% 0.062W | 9066 | | 10kΩ 5% 0.01W 0402 |
| | | | 3732 | | 22kΩ 5% 0.062W | 9070 9081 | 4822 117 13605 4822 117 13605 | |
| | udio [C] | | 3733 3734 | | 5.6kΩ 5% 0.063W 0603 22kΩ 5% 0.062W | 9082 | 4822 117 13605 | |
| FUF A | udio [C] | | 3735 | | 270kΩ 1% 0.063W 0603 | 9111 | 4822 117 13605 | |
| Variana | | | 3736 | | 47kΩ 1% 0.063W 0603 | 9112 | 4822 117 13605 | |
| Various | | | 3737 | | 47kΩ 1% 0.063W 0603 | 9115 9122 | 4822 117 13605 4822 117 13605 | |
| 1735 | 4822 267 10918 | | 3738 3760 | | 100kΩ 1% 0603 0.62W 22kΩ 5% 0.062W | | 1022 111 10000 | - Campar C 102 |
| 1736 | | Connector 3p m | 3764 | | 100kΩ 1% 0603 0.62W | -Ы - | | |
| 1 M02 1 M06 | 4822 267 10618 2422 025 11244 | | 3765 | | 100kΩ 1% 0603 0.62W | '' | | |
| 1 M52 | 2422 025 10769 | | 3777 | | 1kΩ 5% 0.062W | 6051 | 9322 218 97685 | |
| | | · · · · · · · · · · · · · · · · · · · | 3778 3999 | | 47Ω 5% 0.062W 4.7Ω 5% 0.062W | 6060 6070 | 9322 134 46685 9322 140 63685 | |
| | | | 9710 | 4822 051 20008 | | 0070 | 3022 140 00000 | TEMIDSCOO |
| | | | 9711 | 4822 051 20008 | | € Connection | | |
| 2700 | | 1.5nF 50V 0603 | 9712 9713 | 4822 051 20008 4822 051 20008 | | Onnonna, | | |
| 2701 2703 | | 560pF 10% 50V 0603 | | | Julipel Joos | | 0400 040 40040 | DO0 (7D)M |
| | 2020 552 96683 | 220nF 10% 50V | 9748 | 4822 051 20008 | Jumper 0805 | 7051 | 3198 010 42310 | BC84/BW |
| 2704 | | 220nF 10% 50V 470µF 20% 25V | 9748 9757 | 4822 051 20008 4822 051 20008 | Jumper 0805 | 7052 | 3198 010 42310 | BC847BW |
| 2704 2705 | 4822 124 11767 4822 126 14249 | 470μF 20% 25V 560pF 10% 50V 0603 | 9757 9758 | 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 | | | BC847BW |
| 2704 2705 2706 | 4822 124 11767 4822 126 14249 5322 126 11579 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V | 9757 9758 9759 | 4822 051 20008 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 | 3198 010 42310 4822 130 60373 | BC847BW BC856B |
| 2704 2705 2706 2707 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 | 9757 9758 | 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 | 3198 010 42310 | BC847BW BC856B |
| 2704 2705 2706 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V | 9757 9758 9759 9760 9761 9762 | 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 | 3198 010 42310 4822 130 60373 | BC847BW BC856B |
| 2704 2705 2706 2707 2709 2710 2711 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2022 552 05679 | 470µF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 220nF 10% 50V 220nF 10% 50V 1µF 10% 16V 0805 | 9757 9758 9759 9760 9761 9762 9763 | 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 | 3198 010 42310 4822 130 60373 | BC847BW BC856B |
| 2704 2705 2706 2707 2709 2710 2711 2712 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2022 552 05679 4822 126 14583 | 470µF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 220nF 10% 50V 220nF 10% 50V 1µF 10% 16V 0805 470nF 10% 16V 0805 | 9757 9758 9759 9760 9761 9762 | 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 IBO Za Various | 3198 010 42310 4822 130 60373 pper Panel [| BC847BW BC855B |
| 2704 2705 2706 2707 2709 2710 2711 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2022 552 05679 4822 126 13193 4822 126 13193 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 220nF 10% 50V 220nF 10% 50V 1μF 10% 16V 0805 470nF 10% 16V 0805 4.7nF 10% 63V 470nF 5% 63V | 9757 9758 9759 9760 9761 9762 9763 9764 9765 9766 | 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 Jumper 0805 | 7052 7062 IBO Za | 3198 010 42310 4822 130 60373 pper Panel [2422 025 10768 | BC847BW BC856B K] Connector 3p m |
| 2704 2705 2706 2707 2709 2710 2711 2712 2713 2715 2716 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2022 552 05679 4822 126 14583 4822 126 13193 4822 121 51252 3198 017 31530 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 220nF 10% 50V 220nF 10% 50V 1μF 10% 16V 0805 470nF 10% 16V 0805 470nF 5% 63V 470nF 5% 63V 15nF 20% 50V 0603 | 9757 9758 9759 9760 9761 9762 9763 9764 9765 9766 9768 | 4822 051 20008 4822 051 20008 | Jumper 0805 Jumper 0805 | 7052 7062 IBO Za Various 1301 1304 1401 | 3198 010 42310 4822 130 60373 pper Panel [2422 025 10768 4822 252 51187 4822 267 31729 | BC847BW BC856B K] Connector 3p m 19398E 1(0,500A) Connector cinch 1p |
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| 2704 2705 2706 2707 2709 2710 2711 2712 2713 2715 2716 2717 2718 2719 2720 2721 2722 2723 2726 2727 2731 2736 2737 2739 2744 2745 2744 2745 2748 2749 2751 2754 2776 2780 2789 2791 2780 2789 2791 2780 2789 2791 2780 2780 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2791 2780 2789 2791 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2020 552 95679 4822 126 14583 4822 126 13193 4822 126 13193 4822 126 14583 2020 552 05679 2222 580 15649 4822 126 14583 2020 021 91431 2222 580 15649 4822 126 14583 2020 5252 05679 4822 126 14583 2020 552 96679 2222 580 15649 4822 126 13193 4822 126 14249 4822 126 13193 4822 126 1398 3198 017 31530 2222 580 15649 4822 126 13649 4822 126 14247 5322 580 15649 2020 552 96683 4822 124 1767 2022 552 05679 4822 126 14247 5322 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 100nF 10% 50V 0805 220nF 10% 50V 220nF 10% 50V 220nF 10% 16V 0805 470nF 10% 16V 0805 4.7nF 10% 63V 470nF 5% 63V 15nF 20% 50V 0603 1μF 10% 16V 0805 100nF 10% 16V 0805 470nF 10% 16V 0805 100nF 10% 50V 0805 470nF 10% 16V 0805 22μF 20% 100V 100nF 10% 50V 0805 470nF 10% 16V 0805 470nF 10% 16V 0805 1μF 10% 16V 0805 1μF 10% 16V 0805 1μF 10% 16V 0805 1μF 10% 16V 0805 470nF 10% 50V 0603 560pF 10% 50V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220pF 10% 50V 470μF 20% 25V 22μF 20% 100V 1μF 10V 0603 22μF 20% 100V 1μF 10V 0603 22μF 20% 100V 470nF 10% 16V 0805 470nF 10% 16V 0805 470nF 10% 16V 0805 220nF +80-20% 16V | 9757 9758 9759 9760 9761 9762 9763 9764 9765 9768 9770 9790 9799 9806 9807 9808 | 4822 051 20008 4822 1051 20008 4822 1051 2008 4822 1051 2008 4822 1051 2008 4822 1051 2008 4822 1 | Jumper 0805 Jumpe | 7052 7062 IBO Za Various 1301 1304 1401 1402 1403 1500 1600 1700 8301 8500 8600 II 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2119 2120 2121 | 3198 010 42310 4822 130 60373 pper Panel [2422 025 10768 4822 252 51187 4822 267 31729 4822 267 10459 2422 025 18879 2422 025 18879 2422 025 18872 3112 297 13381 2422 033 00364 3139 130 06221 3139 131 05451 4822 124 23002 4822 124 23002 4822 124 23002 2238 586 59812 2238 586 59812 | BC847BW BC856B K] Connector 3p m 19398E 1(0,500A) Connector cinch 1p Connector 3p f Connector 32p f Connector 32p f TUNER TD1316/SPHP Connector smartcard Cable0 32P/480/03P Cable3 2P/400/32P Cable3 40 10μF 16 V 10μF 16 V 10μF 16 V 10μF 16 V 100π 2 0% 50V 0603 |
| 2704 2705 2706 2707 2709 2710 2711 2712 2713 2715 2716 2717 2718 2719 2720 2721 2722 2723 2726 2727 2731 2732 2736 2737 2739 2741 2743 2744 2745 2746 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2747 2748 2749 2751 2754 2776 2780 2789 2791 | 4822 124 11767 4822 126 14249 5322 126 11579 2222 580 15649 2020 552 96683 2020 552 96683 2020 552 95679 4822 126 14583 4822 126 13193 4822 126 13193 4822 126 14583 2020 552 05679 2222 580 15649 4822 126 14583 2020 021 91431 2222 580 15649 4822 126 14583 2020 5252 05679 4822 126 14583 2020 552 96679 2222 580 15649 4822 126 13193 4822 126 14249 4822 126 13193 4822 126 1398 3198 017 31530 2222 580 15649 4822 126 13649 4822 126 14247 5322 580 15649 2020 552 96683 4822 124 1767 2022 552 05679 4822 126 14247 5322 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 4822 126 14583 | 470μF 20% 25V 560pF 10% 50V 0603 3.3nF 10% 63V 0805 220nF 10% 50V 0805 220nF 10% 50V 0805 470nF 10% 16V 0805 4.7nF 10% 63V 470nF 5% 63V 15nF 20% 50V 0603 1μF 10% 16V 0805 470nF 10% 63V 600 63V 16V 0805 470nF 10% 16V 0805 470nF 10% 63V 6009F 10% 50V 0603 470nF 10% 63V 6009F 10% 50V 0603 470nF 10% 16V 0805 470nF 5% 63V 15nF 20% 50V 0603 100nF 10% 50V 0603 100nF 10% 50V 0805 220pF 5% 50V 1nF 25V 0603 100nF 10% 50V 0805 220nF 10% 50V 0805 220nF 10% 50V 0805 220nF 10% 50V 0805 220nF 10% 50V 0805 1.5nF 50V 0803 1.5nF 50V 0803 1.5nF 50V 0803 1.5nF 50V 0805 220nF 10% 50V 0805 220nF 10% 50V 0805 1.5nF 50V 0803 3.3nF 10% 63V 47μF 20% 25V 22μF 20% 100V 1μF 10V 0805 470nF 10% 16V 0805 470nF 10% 16V 0805 470nF 10% 16V 0805 220nF +80-20% 16V | 9757 9758 9759 9760 9761 9762 9763 9764 9765 9766 9768 9790 9790 9790 9806 9807 9808 | 4822 051 20008 4822 051 120008 4822 157 11411 4822 157 11411 4822 157 11411 4822 157 11411 4822 130 11522 9322 150 18685 4822 130 10838 9322 202 89668 9352 729 65112 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 3198 010 42310 | Jumper 0805 Jumpe | 7052 7062 IBO Za Various 1301 1304 1401 1402 1403 1500 1600 1700 8301 8500 8600 | 3198 010 42310 4822 130 60373 pper Panel [2422 025 10768 4822 252 51187 4822 267 31729 4822 267 10459 2422 025 18872 3112 297 13381 2422 035 18799 2422 025 18872 3112 297 13381 2422 033 00364 3139 131 05451 4822 124 23002 4823 139 131 05451 4822 124 23002 4822 124 23002 2238 586 59812 2238 586 59812 | BC847BW BC856B K] Connector 3p m 1939Æ 1(0,500A) Connector 3p 1939Æ 1(0,500A) Connector cinch 1p Connector 3p Socket USB 4p f Connector 32p f TUNER TD1316/SPHP Connector smartcard Cableo3P/480/03P Cableo3P/480/03P Cable340 10µF 16 V 100nF 2 0% 50V 0603 |

| 2131 | 4822 124 23002 | 10μF 16V | 2555 | 4822 124 23002 | 10μF 16V | 3314 | 3198 021 31080 | 1Ω 5% 0603 |
|--|---|---|--|---|---|--|--|---|
| 2132 | 4822 124 23002 | 10μF 16V | 2556 | 2238 586 59812 | 100nF 20% 50V 0603 | 3315 | 4822 051 30102 | |
| 2133 | 4822 124 23002 | 10μF 16V | 2607 | 2238 586 59812 | 100nF 20% 50V 0603 | 3316 | 4822 051 30102 | |
| 2203 | 4822 124 23002 | 10μF 16V | 2608 | 2238 586 59812 | 100nF 20% 50V 0603 | 3317 | 2322 704 63302 | 3.3kΩ 1% 0603 |
| 2204 | 2238 586 59812 | 100nF 20% 50V 0603 | 2609 | 2238 586 59812 | 100nF 20% 50V 0603 | 3318 | 3198 021 31080 | 1Ω 5% 0603 |
| 2206 | 4822 124 23002 | 10μF 16V | 2610 | 2238 586 59812 | 100nF 20% 50V 0603 | 3319 | 3198 021 31080 | |
| 2207 | 2238 586 59812 | 100nF 20% 50V 0603 | 2611 | 2238 586 59812 | 100nF 20% 50V 0603 | 3320 | 3198 021 31080 | 1Ω 5% 0603 |
| 2208 | 2238 586 59812 | 100nF 20% 50V 0603 | 2612 | 2238 586 59812 | 100nF 20% 50V 0603 | 3321 | 3198 021 31080 | |
| 2209 | 2238 586 59812 | 100nF 20% 50V 0603 | 2613 | 2238 586 59812 | 100nF 20% 50V 0603 | 3322 | 5322 117 13042 | 3.9kΩ 1% 0.063W 0603 |
| 2210 | 2238 586 59812 | 100nF 20% 50V 0603 | 2614 | 4822 124 80151 | 47μF 16V | 3323 | | 820Ω 1% 0.063W 0603 |
| 2211 | 2238 586 59812 | 100nF 20% 50V 0603 | 2615 | 2238 586 59812 | 100nF 20% 50V 0603 | 3324 | 4822 051 30102 | |
| 2212 | | 100nF 20% 50V 0603 | 2617 | | 100nF 20% 50V 0603 | 3325 | | 100kΩ 1% 0603 0.62W |
| 2213 | 2238 586 59812 | 100nF 20% 50V 0603 | 2618 | 2238 586 59812 | 100nF 20% 50V 0603 | 3326 | | 10kΩ 5% 0.062W |
| 2214 | 2238 586 59812 | 100nF 20% 50V 0603 | 2619 | 2238 586 59812 | 100nF 20% 50V 0603 | 3327 | 4822 051 30339 | 33Ω 5% 0.062W |
| 2300 | 4822 126 13881 | 470pF 5% 50V | 2620 | 2238 586 59812 | 100nF 20% 50V 0603 | 3328 | | 100kΩ 1% 0603 0.62W |
| 2301 | 4822 124 40849 | 330UF 20% 16V | 2621 | 4822 124 80151 | 47μF 16V | 3330 | 3198 021 31820 | 1.8kΩ 5% 0.062W 0603 |
| 2302 | 4822 124 40207 | 100μF 20% 25V | 2622 | 4822 124 80151 | 47μF 16V | 3331 | 2322 704 61001 | 100Ω 1% 0603 |
| 2304 | 2020 021 91506 | 1000μF 20% 16V | 2623 | 2238 586 59812 | 100nF 20% 50V 0603 | 3332 | 5322 117 13055 | 75Ω 1% 0.063W 0603 |
| 2305 | 2238 586 59812 | 100nF 20% 50V 0603 | 2624 | 2238 586 59812 | 100nF 20% 50V 0603 | 3333 | | 27kΩ 5% 0.062W |
| 2306 | 4822 124 40207 | 100μF 20% 25V | 2625 | 2238 586 59812 | 100nF 20% 50V 0603 | 3333 | 4822 117 12925 | 47kΩ 1% 0.063W 0603 |
| 2308 | 4822 126 13881 | 470pF 5% 50V | 2626 | 2238 586 59812 | 100nF 20% 50V 0603 | 3334 | 4822 051 30103 | 10kΩ 5% 0.062W |
| 2309 | 4822 124 40849 | 330UF 20% 16V | 2627 | 2238 586 59812 | 100nF 20% 50V 0603 | 3334 | 4822 051 30333 | 33kΩ 5% 0.062W |
| 2311 | 2020 021 91687 | 470μF 20% 16V | 2628 | 2238 586 59812 | 100nF 20% 50V 0603 | 3403 | 4822 051 30103 | 10kΩ 5% 0.062W |
| 2313 | 4822 126 13881 | 470pF 5% 50V | 2629 | | 100nF 20% 50V 0603 | 3404 | 4822 051 30561 | 560Ω 5% 0.062W |
| 2314 | | 33nF 20% 16V 0603 | 2630 | | 100nF 20% 50V 0603 | 3405 | 4822 051 30102 | 1kΩ 5% 0.062W |
| 2315 | | 330UF 20% 16V | 2631 | 2238 586 59812 | 100nF 20% 50V 0603 | 3406 | 4822 051 30102 | 1kΩ 5% 0.062W |
| 2317 | | 100μF 20% 25V | 2632 | 4822 122 33741 | | 3407 | 4822 051 30689 | 68Ω 5% 0.063W 0603 |
| 2318 | | 470μF 20% 16V | 2700 | | 100nF 20% 50V 0603 | 3411 | | 180Ω 5% 0.062W |
| 2319 | 2020 021 91634 | | 2701 | | 100nF 20% 50V 0603 | 3420 | 4822 051 30339 | |
| 2320 | | 100nF 20% 50V 0603 | 2702 | | 100nF 20% 50V 0603 | 3421 | 4822 051 30339 | |
| 2324 | | 470nF 10V 0603 | 2703 | | 100nF 20% 50V 0603 | 3422 | | 15kΩ 5% 0.062W |
| 2325 | | 470nF 10V 0603 | 2704 | | 100nF 20% 50V 0603 | 3423 | | 15kΩ 5% 0.062W |
| 2326 | | 470nF 10V 0603 | 2705 | | 100nF 20% 50V 0603 | 3500 | 4822 051 30102 | |
| 2327 | | 100nF 20% 50V 0603 | 2706 | 4822 124 23002 | | 3501 | 4822 117 12968 | |
| 2328 | | 100nF 20% 50V 0603 | 2707 | 4822 124 23002 | | 3502 | | 68kΩ 5% 0.062W |
| 2329 | 4822 126 13193 | | 2708 | | 100nF 20% 50V 0603 | 3503 | 4822 051 30102 | |
| 2330 | 2020 021 91687 | | 2709 | 4822 124 23002 | | 3504 | 4822 117 13613 | |
| 2331 | 4822 126 13193 | | 2710 | | 100nF 20% 50V 0603 | 3505 | 4822 117 12968 | |
| 2332 | 4822 124 40207 | | 2711 | | 100nF 20% 50V 0603 | 3506 | | 33kΩ 5% 0.062W |
| 2333 | | 10nF 10% 50V 0603 | 2712 | | 100nF 20% 50V 0603 | 3507 | 4822 051 30152 | |
| 2334 | | 100nF 20% 50V 0603 | 2713 | 4822 124 23002 | | 3508 | 4822 117 13613 | |
| 2335 | 4822 124 12095 | | 2714 | | 1nF 10% 50V 0603 | 3509 | 4822 051 30102 | |
| 2336 | 4822 126 13193 | | 2715 | 2020 552 94427 | 100pF 5% 50V | 3510 | | 68kΩ 5% 0.062W |
| 2337 2337 | 4822 124 11947 | | | | | 3511 | 4822 117 12968 | |
| 2403 | 4822 124 22652 | | -w- | | | 3512 | | 100Ω 5% 0.062W |
| 2405 | | 100nF 20% 50V 0603 | | | | 3513 | | 100Ω 5% 0.062W |
| 2406 | 3198 032 27190 | 100nF 20% 50V 0603 | 3100 | 4822 051 30103 | 10kΩ 5% 0.062W | 3514 | 4822 051 30102 | |
| 2411 | | 100nF 20% 50V 0603 | 3101 | 4822 051 30103 | 10kΩ 5% 0.062W | 3515 | 4822 051 30333 | |
| 2412 | | 100nF 20% 50V 0603 | 3112 | 4822 051 30103 | 10kΩ 5% 0.062W | 3516 | 4822 117 12968 | |
| 2413 | | 100nF 20% 50V 0603 | 3116 | 4822 051 30103 | 10kΩ 5% 0.062W | 3517 | 4822 051 30152 | |
| 2500 | 3198 017 41050 | | 3117 | 4822 051 30103 | 10kΩ 5% 0.062W | 3519 3520 | 4822 051 30759 | |
| 2501 | 2020 552 94427 | | 3119 | 4822 051 30103 | 10kΩ 5% 0.062W | 3521 | 4822 051 30759 | |
| 2502 | | 100nF 20% 50V 0603 | 3128 | 4822 051 30103 | 10kΩ 5% 0.062W | 3522 | 4822 051 30759 | |
| 2503 | 2020 552 94427 | | 3130 | 4822 051 30103 | 10kΩ 5% 0.062W | 3523 | 4822 051 30759 | |
| 2504 | | 100nF 20% 50V 0603 | 3131 | 4822 051 30103 | 10kΩ 5% 0.062W | 3526 | 4822 051 30759 4822 051 30759 | |
| 2505 | 3198 017 41050 | | 3133 | 9965 000 23109 | 22Ω 5% 0603 | 3527 | 4822 051 30759 | |
| 2506 | 4822 124 12084 | | 3134 | 9965 000 23109 | | 3528▲ | 5322 117 11726 | |
| 2507 | 4822 126 13193 | | 3135 | 9965 000 23109 | | 3530 | 4822 051 30759 | |
| 2508 | 3198 017 41050 | | 3137 | | 10kΩ 5% 0.062W | 3532 | | 560Ω 5% 0.062W |
| 2509 | 2020 552 94427 | | 3138 | | 10kΩ 5% 0.062W | 3533 | 4822 051 30759 | |
| 2510 | 2020 552 94427 | | 3139 | 4822 051 30339 | | 3534 | 4822 117 12891 | |
| 2511 | | 100nF 20% 50V 0603 | 3140 | | 1.2kΩ 1% 0.063W 0603 | 3535 | | 100kΩ 1% 0603 0.62 /√ |
| 2512 | 4822 124 80151 | 47μF 16V | 3141 | 4822 051 30103 | 10kO 5% 0 062W | | | |
| 2513 | 040001= 44000 | | | | | 3537 | | |
| 2514 | | 1μF 10V 0603 | 3142 | 4822 051 30101 | 100Ω 5% 0.062W | 3537 3538 | 4822 117 12891 | |
| | 4822 124 12084 | 1μF 20% 50V | 3143 | 4822 051 30101 4822 051 30101 | 100Ω 5% 0.062W 100Ω 5% 0.062W | | 4822 117 12891 | 220kΩ 1% 100kΩ 1% 0603 0.62 /√ |
| 2515 | 4822 124 12084 4822 126 13193 | 1μF 20% 50V 4.7nF 10% 63V | 3143 3144 | 4822 051 30101 4822 051 30101 4822 051 30101 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W | 3538 3539 3540 | 4822 117 12891 1 4822 117 13632 4822 051 30759 1 4822 051 30561 | 220kΩ 1% 100kΩ 1% 0603 0.62 /N 75Ω 5% 0.062W 560Ω 5% 0.062W |
| 2515 2520 | 4822 124 12084 | 1μF 20% 50V 4.7nF 10% 63V | 3143 3144 3146 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W | 3538 3539 | 4822 117 12891 1 4822 117 13632 4822 051 30759 | 220kΩ 1% 100kΩ 1% 0603 0.62 /N 75Ω 5% 0.062W 560Ω 5% 0.062W |
| 2515 2520 2521 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V | 3143 3144 3146 3147 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W | 3538 3539 3540 3547 3548 | 4822 117 12891 14822 117 13632 4822 051 30759 4822 051 30759 4822 051 30759 4822 051 30561 1 | 220kΩ 1% 100kΩ 1% 0603 0.62/ V 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 560Ω 5% 0.062W |
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| 2515 2520 2521 2522 2523 2524 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 122 33761 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 | 100Ω 5% 0.062W 100Ω 5% 0.062W 4X 33Ω 5% 1206 | 3538 3539 3540 3547 3548 3557 3558 3559 | 4822 117 12891 14822 117 13632 4822 051 30759 4822 051 30561 14822 051 30561 14822 117 13632 4822 051 30102 4822 051 30681 14822 051 30102 4822 051 30681 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 680Ω 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 390pF 5% 50V 390pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10kΩ 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 | 3538 3539 3540 3547 3548 3557 3558 3559 3560 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 117 13632 4822 051 30102 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30681 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 880Ω 5% 0.062W 27kΩ 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 | 3143 3144 3146 3147 3151 3154 3156 3157 3158 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10kΩ 5% 0.062W 10kΩ 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 | 4822 117 12891 14822 117 13632 4822 051 30759 4822 051 30561 14822 051 30561 14822 117 13632 4822 051 30102 4822 051 30681 14822 051 30102 4822 051 30681 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 880Ω 5% 0.062W 27kΩ 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 3198 031 13390 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10kΩ 5% 0.062W 10kΩ 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 3562 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 117 13632 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30673 4822 051 30271 4822 051 30151 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 880Ω 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W |
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| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 390pF 5% 50V 390pF 5% 50V 390pF 5% 50V 22pF 5% 50V 22pF 5% 50V 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10kΩ 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 33Ω 5% 0.062W | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 3562 3563 3563 3564 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 117 13632 4822 051 30681 4822 051 30681 4822 051 30273 4822 051 30271 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 1100kΩ 1% 0603 0.62/N 11kΩ 5% 0.062W 1100kΩ 1% 0603 0.62/N 11kΩ 5% 0.062W |
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| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 22pF 5% 50V 22pF 5% 50V 22pF 5% 50V 23pF 5% 50V 25pF 5% 50V 0603 | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 3198 031 33390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10kΩ 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 33Ω 5% 0.062W | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 3562 3563 3563 3565 3565 3566 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30273 4822 051 30271 4822 051 30271 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 270Ω 5% 0.062W 31kΩ 5% 0.062W 320Ω 5% 0.062W 320Ω 5% 0.062W 330Ω 5% 0.062W 340Ω 1% 0603 0.62/N 350Ω 5% 0.062W 350Ω 5% 0.062W 350Ω 5% 0.062W 350Ω 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 22pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 0603 | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 | $\begin{array}{c} 100\Omega \ 5\% \ 0.062W \\ 10k\Omega \ 5\% \ 0.062W \\ 10k\Omega \ 5\% \ 0.062W \\ 20km \ 20$ | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 3562 3563 3564 3565 3566 3565 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30273 4822 051 30271 4822 051 30271 4822 051 30102 4822 051 30102 4822 051 30103 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30163 4822 051 30163 4822 051 30163 4822 051 30163 4822 051 30681 4822 051 30673 4822 051 30673 4822 051 30671 2 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 276Ω 5% 0.062W 276Ω 5% 0.062W 276Ω 5% 0.062W 276Ω 5% 0.062W 15ΩΩ 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 27kΩ 5% 0.062W |
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| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2539 2540 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 13879 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 930pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 3200 3205 3206 3207 3206 3207 3210 3211 3300 3301 3303 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30101 4822 051 30101 4822 051 30103 3198 021 31080 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 10kΩ 5% 0.062W | 3538 3539 3540 3547 3548 3557 3558 3559 3560 3561 3562 3563 3564 3565 3566 3567 3568 3571 3606 3607 3608 3609 3610 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30273 4822 051 30271 4822 051 30102 4822 051 30581 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30142 4822 0 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 1kΩ 5% 0.062W 27kΩ 5% 0.062W 27κΩ 5% 0.062W 150Ω 5% 0.062W 27κΩ 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2540 2543 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 33761 4822 122 33761 4822 126 14315 4822 126 1315 4822 126 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 33761 4822 126 3379 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 | 1μF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 320pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 220nF +80-20% 16V 47μF 16V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 3200 3205 3206 3207 3206 3207 3209 3211 3300 3301 3303 3303 3303 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30332 4822 051 30332 4822 051 30103 4822 051 30332 4822 051 30103 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 3198 021 31080 3198 021 31080 5322 117 13046 | 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 100Ω 5% 0.062W 33Ω 5% 0.062W 100Ω 5% 0.062W | 3538 3539 3540 3547 3548 3557 3558 3560 3561 3562 3563 3564 3565 3566 3567 3568 3570 3571 3606 3607 3608 3609 3610 3612 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30581 4822 051 30102 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30515 4822 051 30572 4822 0 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 27kΩ 5% 0.062W 270Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 27kΩ 5% 0.062W 150Ω 5% 0.062W 27kΩ 5% 0.062W 150Ω 5% 0.062W 150Ω 5% 0.062W 150Ω 5% 0.062W 10κΩ 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2539 2540 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 33761 4822 126 33761 4822 126 33761 4822 126 33761 4822 126 33761 4822 126 33761 4822 126 33761 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3158 3159 3160 3161 3162 3163 3200 3205 3206 3207 3206 3207 3209 3211 3300 3301 3301 3303 3304 3306 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30332 4822 051 30332 4822 051 30332 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30101 4822 051 30101 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 | 100Ω 5% 0.062W 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 33Ω 5% 0.062W 100Ω 5% 0.062W 3.3Ω 5% 0.062W 100Ω 5% 0.062W | 3538 3539 3540 3547 3548 3557 3558 3560 3561 3562 3563 3564 3565 3566 3567 3568 3570 3571 3608 3607 3608 3609 3610 3612 3613 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30102 4822 051 30102 4822 051 30681 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30581 4822 051 30515 4822 0 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 27kΩ 5% 0.062W 150Ω 5% 0.062W 150Ω 5% 0.062W 27kΩ 5% 0.062W 150Ω 5% 0.062W 17Ω 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2543 2544 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 13815 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 | 1μF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 3200 3205 3205 3206 3207 3209 3211 3300 3301 3303 3304 3306 3307 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30332 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 1892 051 30101 4822 051 30101 4822 051 30103 198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 322 704 61001 | 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 0.062W 10kΩ 5% 0.062W 10Ω 5% 0.063W 1Ω 5% 0603 1Ω 5% 0603 1Ω 5% 0603 1Ω 5% 0603 | 3538 3539 3540 3547 3548 3557 3558 3560 3561 3562 3563 3564 3565 3566 3567 3568 3570 3571 3606 3607 3608 3609 3610 3612 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30759 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 30681 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 3073 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30103 4822 051 30472 4822 117 13632 4822 117 13632 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 680Ω 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27κΩ 5% 0.062W 27κΩ 5% 0.062W 27κΩ 5% 0.062W 150Ω 5% 0.062W 27κΩ 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2632 2533 2534 2535 2536 2537 2538 2539 2540 2543 2544 2550 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 990pF 5% 50V 0603 22pF 5% 50V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 3200 3205 3206 3207 3206 3207 3209 3210 3211 3300 3301 3301 3303 3304 3306 3307 3312 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 3198 021 31080 3198 021 31080 5322 117 13046 2322 704 61001 2322 704 61001 3198 021 31080 | 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 0.062W 10kΩ 5% 0.062W 10ΩΩ 5% 0.063 | 3538 3539 3540 3547 3548 3557 3558 3560 3561 3562 3563 3564 3565 3566 3567 3568 3571 3606 3607 3608 3607 3609 3610 3612 3613 3614 3615 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30681 4822 051 30273 4822 051 30271 4822 051 30102 4822 051 30102 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30101 4821 051 30101 4822 051 30101 4821 4822 051 30101 4821 4822 051 30101 4821 4822 051 30101 4821 4 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 75Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 276Ω 5% 0.062W |
| 2515 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2543 2544 2551 | 4822 124 12084 4822 126 13193 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 126 14315 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 122 33761 4822 126 14315 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 4822 126 13879 | 1µF 20% 50V 4.7nF 10% 63V 22pF 5% 50V 29pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 390pF 5% 50V 0603 22pF 5% 50V 390pF 5% 50V 0603 320nF +80-20% 16V 1µF 10V 0603 220nF +80-20% 16V 1µF 10V 0603 220nF +80-20% 16V | 3143 3144 3146 3147 3151 3154 3156 3157 3158 3159 3160 3161 3162 3163 3200 3205 3205 3206 3207 3209 3211 3300 3301 3303 3304 3306 3307 | 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30101 4822 051 30103 4822 051 30103 3198 031 13390 3198 031 13390 3198 031 13390 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30339 4822 051 30332 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 4822 051 30103 1892 051 30101 4822 051 30101 4822 051 30103 198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 3198 021 31080 322 704 61001 | 100Ω 5% 0.062W 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 4X 33Ω 5% 1206 33Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 100Ω 5% 0.062W 10Ω 5% 0.063 1Ω 5% 0603 | 3538 3539 3540 3547 3548 3557 3558 3560 3561 3562 3563 3564 3565 3566 3567 3568 3570 3571 3606 3607 3608 3609 3610 3612 | 4822 117 12891 4822 117 13632 4822 051 30759 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30561 4822 051 30681 4822 051 30273 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30151 4822 051 30101 4822 051 30101 4822 051 30102 4822 051 30102 4822 051 30103 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 117 13632 4822 117 13632 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 051 30102 4822 117 13632 5482 | 220kΩ 1% 100kΩ 1% 0603 0.62/N 75Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 560Ω 5% 0.062W 100kΩ 1% 0603 0.62/N 11κΩ 5% 0.062W 680Ω 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27kΩ 5% 0.062W 27κΩ 5% 0.062W 27κΩ 5% 0.062W 27κΩ 5% 0.062W 150Ω 5% 0.062W 27κΩ 5% 0.062W |

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4822 157 11499 Bead 60Ω at 100MHz
3621
          4822 051 30339
                          33Ω 5% 0.062W
                                                   5507
                                                              4822 157 11499 Bead 60Ω at 100MHz
3622
          3198 031 13390
                          4X 33Ω 5% 1206
                                                   5508
                                                              3198 018 52280
                                                                             2.2µF 10% 1008
                          4.70.5% 0.062W
                                                   5511
3623
          4822 051 30472
                                                              3198 018 52280
                                                                             2.2µF 10% 1008
3624
          3198 031 13390
                          4X 33Ω 5% 1206
                                                   5512
                                                             3198 018 52280 2.2µF 10% 1008
3198 018 52280 2.2µF 10% 1008
          4822 051 30101
                          100Ω 5% 0.062W
                                                   5513
3626
          4822 051 30272
                          2.7kΩ 5% 0.062W
                                                   5514
                                                              4822 157 11499
                                                                             Bead 60Ω at 100MHz
                          2.7kO 5% 0.062W
                                                   5528
3627
          4822 051 30272
                                                              4822 157 11499
3629
          4822 051 30101
                          100Ω 5% 0.062W
                                                   5600
                                                                             Bead 60\Omega at 100MHz
          4822 051 30101
                          100Ω 5% 0.062W
                                                              4822 157 11499
                                                                             Bead 60\Omega at 100MHz
3630
                                                   5601
                                                             4822 157 11499
4822 157 11499
3631
          4822 051 30101
                          100Ω 5% 0.062W
                                                   5602
                                                                             Bead 60Q at 100MHz
                                                                             Bead 60Ω at 100MHz
3635
          4822 051 30339
                          33Ω 5% 0.062W
                                                   5700
                                                              4822 157 11499
                                                                             Bead 60\Omega at 100MHz
                          680kΩ 5% 0.062W
                                                   5701
3636
          4822 051 30684
          4822 117 12891
                                                              4822 157 11499
                                                                             Bead 60\Omega at 100MHz
3637
                          220kΩ 1%
                                                   5702
           4822 051 30331
                          330Ω 5% 0.062W
                                                   5703
                                                              4822 157 11499
                                                                             Bead 60O at 100MHz
3638
                                                              4822 157 11499 Bead 60Ω at 100MHz
3639
          4822 051 30391
                          390Ω 5% 0.062W
                                                   5704
                          680kΩ 5% 0.062W
3640
          4822 051 30684
          4822 117 12891
3641
                          220kΩ 1%
                                                   ₩-
           4822 051 30331
                          330Ω 5% 0.062W
3642
3643
          4822 051 30331
                          330Ω 5% 0.062W
                                                   6300
                                                              9322 128 70685 SMSS14
          3198 031 13390
4822 051 30103
3644
                          4X 33O 5% 1206
                                                   6303
                                                              9322 128 70685
                                                                             SMSS14
3645
                          10kΩ 5% 0.062W
                                                   6304
                                                              9322 128 70685
                                                                             SMSS14
3700
           4822 051 30101
                          100Ω 5% 0.062W
                                                                             1N4148WS SOD-323
                                                              9965 000 20150
                                                   6307
3701
           4822 051 30101
                          100Ω 5% 0.062W
                                                   6400
                                                              9340 548 52115
                                                                             PDZ5.1B
                          4X 33\Omega 5\% 1206
4X 33\Omega 5\% 1206
3702
          3198 031 13390
                                                   6401
                                                              4822 130 10837
                                                                             UDZS8.2B
          3198 031 13390
3703
                                                   6403
                                                              4822 130 10837
                                                                             HD758 2B
3704
           4822 051 30103
                          10kΩ 5% 0.062W
                                                   6503
                                                              4822 130 11397
                                                                             BAS316
           3198 031 13390
                          4X 33Ω 5% 1206
3705
                                                              4822 130 11397
                                                                             BAS316
                                                   6504
                          10kΩ 5% 0.062W
3707
           4822 051 30103
                          10kΩ 5% 0.062W
3708
          4822 051 30103
                          10kΩ 5% 0.062W
                                                   3709
           4822 051 30103
           4822 051 30103
                          10kΩ 5% 0.062W
3710
3711
           4822 051 30103
                          10kΩ 5% 0.062W
                                                   7100
                                                              9352 744 74557 SM PNX8316HS/C102
3712
           4822 051 30103
                          10kQ 5% 0.062W
                                                   7200
                                                              9322 206 20668
                                                                             M29W320DT70N6F
3713
                                                              9322 213 88668
                                                                             K4S281632F-TC60
           2322 704 62002
                          2kΩ 1%
                                                   7202
3715
           4822 051 30103
                          10kΩ 5% 0.062W
                                                   7203
                                                              9322 130 41668
                                                                              M24C64-WMN6
3716
           4822 051 30103
                          10kΩ 5% 0.062W
                                                   7300
                                                              4822 209 60059
                                                                             MC34063AP1
                          10kO 5% 0.062W
3717
           4822 051 30103
                                                   7301
                                                              9322 184 19687
                                                                             LD1117V18
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                          10kΩ 5% 0.062W
                                                              9322 216 98687
                                                                             LD1117V
3718
                                                   7302
           4822 051 30103
                           10kΩ 5% 0.062W
                                                              4822 209 60059
3719
                                                   7303
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3720
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                                                             9322 165 15685
9322 202 15687
3721
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                                                   7306
                                                                             NCP303LSN30
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           4822 051 30103
3722
                                                                             LD1117V50
                                                   7307
           3198 031 13390
                          4X 33Ω 5% 1206
                                                              9322 202 15687
3723
                                                   7308
                                                                              LD1117V50
3724
           3198 031 13390 4X 33Ω 5% 1206
                                                              4822 130 60373
                                                                             BC856B
                                                   7309
                          33Ω 5% 0.062W
                                                             3198 010 70510
9322 214 70685
3725
           4822 051 30339
                                                   7310
                                                                             TL431C7
           4822 051 30339 33Ω 5% 0.062W
                                                                             SM SI2314EDS-E3
3726
                                                   7311
                          47Ω 5% 0.062W
3727
           4822 051 30479
                                                   7312
                                                              5322 130 60159
                                                                             BC846B
                                                              5322 130 60159
3728
           4822 051 30479
                          47Ω 5% 0.062W
                                                   7402
                                                                             BC846B
3729
           4822 051 30479 47Ω 5% 0.062W
                                                   7403
                                                              9322 150 49668
                                                                             LM3525M-H
           4822 051 30479
                          47Ω 5% 0.062W
3730
                                                              4822 130 60373
                                                   7500
                                                                             BC856B
3731
           4822 051 30479
                          47Ω 5% 0.062W
                                                              5322 130 60159
                                                   7501
                                                                             BC846B
           4822 051 30479 47Ω 5% 0.062W
                                                              9352 668 39118
                                                                             SM UDA1334ATS/N2
3732
                                                   7502
3733
           4822 051 30479
                          47Ω 5% 0.062W
                                                   7503
                                                              4822 130 60373
                                                                             BC856B
3734
           4822 117 13573
                          4 \times 47\Omega 5\%
                                                   7504
                                                              5322 130 60159
                                                                             BC846B
                          47Ω 5% 0.062W
3738
           4822 051 30479
                                                              5322 130 60159
                                                                             BC846B
                                                   7505
           4822 051 30479
                          47Ω 5% 0.062W
                                                              5322 130 60159
3739
                                                   7506
                                                                             BC846B
3740
           4822 051 30479 47Ω 5% 0.062W
                                                   7507
                                                              5322 130 60159 BC846B
           4822 051 30479
                          47O 5% 0.062W
3741
                                                   7510
                                                              5322 130 60159
                                                                             BC846B
           4822 051 30479
                          47Ω 5% 0.062W
3742
                                                              4822 130 60373
                                                   7511
                                                                             BC856B
           4822 051 30479
                          47Ω 5% 0.062W
3743
                                                              5322 130 60159
                                                                             BC846B
                                                   7512
3744
           4822 051 30479
                          47Ω 5% 0.062W
                                                   7513
                                                              4822 130 60373
                                                                             BC856B
3745
           4822 051 30479
                          470 5% 0 062W
                                                   7514
                                                              5322 130 60159
                                                                             BC846B
           4822 051 30479
                          47Ω 5% 0.062W
3746
                                                              9352 732 45557
                                                                              TDA10046AHT/C1
                                                   7600
3747
           4822 051 30479
                          47\Omega 5% 0.062W
                                                   7601
                                                              5322 209 70225
                                                                             LM393D
3748
           4822 051 30479
                          47Ω 5% 0.062W
                                                              9352 630 16165
                                                                             SM 74AHC1GU04GW
                                                   7605
                                                                             SM 74AHC1GU04GW
CIMAX 2.0
3749
           4822 051 30339
                          33Q 5% 0.062W
                                                   7606
                                                              9352 630 16165
                          33Ω 5% 0.062W
           4822 051 30339
3750
                                                   7700
                                                              9322 172 92671
           4822 051 30472
                          4.7\Omega 5% 0.062W
                                                              9352 190 10118
                                                                             74LVC573ADB
3751
                                                   7701
           4822 051 30472 4.7Ω 5% 0.062W
                                                                             74LVC573ADB
3752
                                                   7702
                                                              9352 190 10118
                                                              9352 115 40118 74LVC245APW
                                                   7703
                                                   7704
                                                              2722 171 08821 XTL 27MHz 50pF
                                                              9322 175 13668 ST890CD
                                                   7705
           4822 157 11499 Bead 60Ω at 100MHz
5100
           4822 157 11717
                          Bead 50Ω at 100MHz
5101
5102
           4822 157 11717
                          Bead 50\Omega at 100MHz
           4822 157 11717
                          Bead 50\Omega at 100MHz
5103
5201
           4822 157 11499
                          Bead 60O at 100MHz
           4822 157 11499 Bead 60Ω at 100MHz
4822 157 11499 Bead 60Ω at 100MHz
5202
5203
           2422 536 00491
5300
           4822 157 10452 10μH 10%
5301
           2422 535 94639
5302
                          10µH 20%
           2422 536 00548
5303
                           100<sub>µ</sub>
                           10μH 10%
           4822 157 10452
5304
           2422 536 00548
                           100µ
5305
                          10μH 10%
10μH 20%
5306
           4822 157 10452
           2422 535 94639
5307
           3198 018 90050
5309
                          Bead 1kΩ at 100MHz
5401
           4822 157 11499
                          Bead 60Ω at 100MHz
                          Bead 2200 at 100MHz
5420
           2422 549 44197
           4822 157 11499
                          Bead 60Ω at 100MHz
5502
           4822 157 11499
                          Bead 60Ω at 100MHz
5504
```

5505

4822 157 11499 Bead 60Ω at 100MHz

11. Revision List

Manual xxxx xxx xxxx.0

First release.

Manual xxxx xxx xxxx.1

- Chapter 7: PSU schematics and PWB's [A] added.
- Chapter 10: PSU parts list [A] added and software items updated.